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Professional Income

OF ENGINEERS

1990

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PROFESSIONAL INCOME OF ENGINEERS 1990

A Report of an Annual Survey
Conducted by the

ENGINEERING MANPOWER COMMISSION
of the
AMERICAN ASSOCIATION OF ENGINEERING SOCIETIES, INC.

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EMC conducts annual surveys of industry and schools of engineering, monitors trends in the supply of and demand for engineers, and produces annual reports on engineering enrollments, degrees, and salaries. In addition to its statistical studies, EMC also produces the *Engineering Manpower Bulletin*, which assesses trends in the engineering workforce including participation in the profession by women and ethnic minorities.

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The Engineering Manpower Commission wishes to express its grateful appreciation for the cooperation of the hundreds of organizations that provided the data on which this report is based.

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PROFESSIONAL INCOME OF ENGINEERS, 1990

INTRODUCTION

This is the 24th Engineering Manpower Commission survey of the compensation of engineers in the United States. As in our previous salary studies, the data were gathered from employers, who submitted summaries of the base compensation of their engineers, classified by levels of experience, supervisory responsibility, and academic preparation. By classifying the participating organizations, the survey also provides comparisons of salaries among differing industrial sectors, geographic regions, and sizes of employers.

EMC salary surveys do *not* provide data on salary variations among the various engineering disciplines, such as differences in median pay among civil, electrical, and mechanical engineers. Obtaining these details would raise the burden that the survey places on its participants to unacceptable levels. It would also raise complex problems of classification, because the labels that are applied to engineering education programs do not always accurately describe the graduates' subsequent work. Where a degree of correspondence exists between particular engineering disciplines and employment sectors, EMC's data can provide some clues about the salaries that may be associated with different kinds of engineering training. For example, although this report does not report salaries for chemical engineers *per se*, it does report salaries paid to engineers of all kinds by the chemicals industry. But for disciplines like mechanical engineering (whose graduates may be found in virtually every sort of technical workplace), or for a sector like the federal government (which hires all types of engineers), these linkages between training and subsequent employment do not apply.

The data reflect base salaries as of February 1, 1990. Responding organizations were instructed to exclude all irregular forms of compensation, such as one-time bonuses, overtime payments, stock options, etc. (however, beginning with the 1989 survey, EMC is obtaining information on the *proportion* of engineers who receive special incentive compensation; see below). Data were requested for all full-time engineering graduates, including those in nontechnical or managerial positions (some employers advised EMC, as they have in the past, that top management personnel with engineering backgrounds were not included in their responses). Occasionally, data were also provided for non-graduates classed by their employers as fully qualified engineers; such cases, which are infrequent, were treated as equivalent to engineers with B.S. degrees.

Salaries are presented in the form of statistical tabulations, with details for upper and lower deciles, upper and lower quartiles, medians, and means (all of these terms are explicitly defined below). These data are spread across 18 levels of experience, based on the number of years since attainment of the bachelor's degree (age is used to estimate experience in cases where data on the year of graduation is not available). In addition, summaries of these statistics across all levels of experience are included. Both raw salary statistics and smoothed-curve estimates across the experience levels are reported. Graphed maturity curves based on the smoothed results are provided for all tabulations.

As in 1989, we have accelerated the production of this report so that it can be issued much sooner, by July of the applicable year, to enhance its value for compensation planning and other purposes. Despite the fact that participants have less time than before to complete their responses to the survey, the project is growing. The number of engineers in industry represented by the data grew from 111,150 in 1989 to 115,606 in 1990; the number of participating companies increased from 279 to 301.

Other changes adopted in recent years are continued in the 1990 survey. Tabulations include raw salary statistics as well as EMC's usual smoothed-curve results, and technical refinements have been incorporated in our curve-smoothing methods. Details about these and other modifications of the methods used by EMC for these studies are provided below.

The Engineering Manpower Commission has been engaged in studies of engineering compensation for over 35 years. EMC's salary reports began in 1953 with *Professional Income of Engineers*. The *Special*

Industry Report, which began to appear in 1966, adds in details on variations in engineering pay for those with B.S., M.S., or Ph.D degrees. Originally, EMC's salary surveys were done every three years, then every two years; beginning in 1980, they began to be issued annually. EMC also conducts biennial surveys of the compensation of engineering educators; such a study was done in 1990 (*Salaries of Engineers in Education*). In addition to these detailed statistical volumes, a summary of the results of this survey, with special data on trends over time, is available in "Engineering Salaries, 1990" issue number 103 (July, 1990) of the *Engineering Manpower Bulletin*. EMC also provides custom tabulations of its salary data base, such as frequency distributions of the data across salary brackets or reports on other groupings of the participating organizations, by special request. For prices and information on orders, see the inside back cover of this report.

The goal of EMC's salary studies is to determine current levels of compensation for engineers and to report on trends over time. EMC does not evaluate individual salary situations, nor does it advise employers on rates that should be paid for specific positions. Indeed, our own data demonstrate that for any specific combination of employment sector, supervisory responsibilities, education, and experience, variations between the top and bottom salaries reported for the position (as measured by high and low deciles) are likely to be as great as the distinctions introduced by differences in any of the other factors. In short, variations in engineering pay within specific matched positions can be as large as variations between positions, even when the latter distinctions entail substantial differences in employment sectors, education, responsibility, or experience. On the whole, individual salaries are influenced by many considerations, including the economic conditions of particular industries and firms, and the skill, performance, and negotiating ability of particular people.

SURVEY METHODOLOGY

Questionnaires were mailed in January, 1990 to EMC's national list of engineering employers. This listing is updated every year, using *Peterson's Guide to Engineering, Science, and Computer Jobs* (Princeton: Peterson's Guides, published annually), industry and trade directories, employment notices, and the Engineering Manpower Commission's internal records of participants in past surveys.

Copies of the survey instruments are provided in the appendices to this report. Usage of EMC's traditional matrix-style survey forms has declined greatly. Most smaller organizations—those with 50 or fewer engineers—now use our alternative "short form" questionnaires, first introduced in 1987, which provide a more convenient way to report their data. Most larger organizations are now providing their information in the form of simple ASCII text files on floppy disks. Since 1987 when EMC first experimented with this form of response, its use has steadily increased; in 1990, information on 43,157 engineers was provided in machine-readable form. We will continue to urge participants, especially the largest ones, to submit their responses this way, as it substantially reduces labor burdens for both the respondents and ourselves, and it helps reduce the effort needed to correct errors from EMC's data entry. We will continue to provide the older matrix-style forms as an alternative for our respondents, however, as long as significant numbers of participants make use of them.

As noted earlier, responses to the survey representing 115,606 engineers were obtained from 301 private sector organizations. In addition, EMC also obtained data on the salaries of 5,476 engineers employed by 26 agencies of federal, state or local governments, and on 14,744 engineering educators. The data for faculty are reported separately in *Salaries of Engineers in Education*.. Further processing of the data included these steps:

1. Preliminary tabulations were run to confirm manual counts of the number of responding organizations and the number of engineers represented by the data for each company and industrial sector. Data provided by participants are reviewed to see if implausibly large numbers of engineers have been reported as inexperienced and highly paid, or very experienced and poorly paid, which could be a sign of errors on the respondent's part in compiling the information. Such problems are rare.

2. Participants were assigned to sectors on the basis of their responses to an item on the survey forms that asked each organization to indicate how it should be classified. Many participants were classed in two or more sectors (see the appended list of responding organizations for details). Final sectoral groups were formed only if at least five responding organizations and at least 200 engineers were represented. Participants who did not fall into a conventional industry category, or whose preferred sectors could not be formed, were grouped into three residual categories: *other durable goods manufacturers*, *other nondurable goods manufacturers*, and *other non-manufacturers*. See the table "Distribution of Responses, 1990" below, for a

list of the final sectors. In addition, the organizations included in each sector are identified in the appendices.

3. Within sectors, no one responding organization was permitted to account for more than one-half (50 percent) of the data points—number of engineering salaries—reported for the sector. Weighting was used to carry out these adjustments, which have the effect of limiting the influence of any single organization on the results of the survey. In most cases, the actual effects of these adjustments were negligible, because weighted organizations only rarely vary greatly from others in the same sector in their salary practices.

4. Within sectors, further divisions of the data to isolate such subgroups as supervisors, engineers with master's degrees, etc., can have the effect of reducing the size of data pools below the 200-case minimal standard. In such cases, no salary statistics were generated.

5. Across sectors, in estimates of combined-industry salaries for such groups as electric and gas utilities, all manufacturers, etc., the data were weighted again to bring the sector-by-sector distribution of engineers into line with the actual distribution of engineers in the work force. As in other recent EMC salary surveys, the basis for this second set of weights is the U.S. Bureau of Labor Statistics' industry-and-occupation matrix. The matrix is a computer-based model maintained by the Office of Economic Growth at BLS, and accounted for some 1.4 million employed engineers as of 1988. The table, below, on the distribution of responses includes the BLS data for the numbers of engineers in the several sectors. Also, weights for the "All Industries" summary are reported. It is apparent that EMC's data base, which is not a random sample, roughly parallels the actual engineering labor force in its distribution among the major types of industries. The unweighted data tend to overrepresent the chemical and utility sectors, and to underrepresent the non-electric machinery and precision instrument sectors; weights reduce these biases as well as a number of less prominent differences between EMC's data base and the distribution of engineers, as estimated by BLS, in the U.S. industrial economy.

6. The raw medians, quartiles and other percentiles were developed by straight-line interpolation within salary brackets, rounded to the nearest $50. The median, or 50th percentile, provides an illustration. The median for any ranked distribution is that value that divides the data in half, with 50 percent of the cases above it and 50 percent below. For example, if there are 249 engineers with a given level of experience in a sector, the median salary for this level of experience is the value of the 125th data point. EMC's data are grouped into salary brackets, so calculation requires one to determine which group of salaries contains this median point. Interpolation then yields the final raw result; continuing the example, if the 125th point happens to be the 20th case in the $36,000-$37,999 bracket; and if there are 39 cases in this bracket, then the median value is $37,000. Calculation of the deciles and quartiles is similar, except that in those cases the statistics cut the data into quarters or tenths.

7. Statistics for deciles, quartiles, medians, and means were not computed if the number of data points for those with a given level of experience (years since obtaining the B.S. degree) was either ten or less, or less than one percent of all the cases in the data set; if the data were for supervisors with less than four years of experience; if the data were for engineers with master's degrees and less than two years' experience; or if the data were for engineers with doctoral degrees and less than five years' experience. (Details for variations in engineering salaries between those with bachelor's, master's, or doctoral degrees appear only in the *Special Industry Report.)*

CURVE SMOOTHING

As in the past, EMC's final salary statistics were generated from raw results using four-parameter smooth curves computed by the least squares method. Raw statistics were converted, using data across all levels of experience, into curves of the form

$$y = ax^z + bx + c$$

where y = the reciprocal of the salary and x = (43 minus the number of years since the first degree). The computational algorithm yields values for the parameters a, b, c and z which minimize the sum of the squares of the differences between the raw and smooth values of y. The squared differences are weighted by the number of cases associated with each set of data points. Transformed values are used to improve the precision of the computation.

This approach to curve smoothing was adapted by Richard C. Fremon (a former chairman of the Commission and presently an emeritus member) from similar routines he developed for salary curve smoothing at AT&T's Bell Laboratories in the 1960's, and has been used by EMC since 1967. In reprogramming the routines for use on EMC's new computing

systems, some new wrinkles have been added. Improved handling of values arbitrarily used for beginning and ending salary brackets—in 1990, for salaries of more than $125,000 or less than $22,000 per annum—eliminated difficulties experienced in the past when top salaries for some of the most highly paid engineers, such as senior supervisors in the petroleum industry, tended to be artificially depressed. Also, graphing routines were adjusted so that plotted curves accurately reflect the actual value assumed for the top experience bracket (39 years).

A more fundamental adjustment has been EMC's increasing allowance for the fact that more than one "minimal" sum of squares can be computed for most of these salary data, depending on what values are assumed at the beginning of the process. EMC's traditional program iterated the computations until the sum of the squared differences began to rise; at that point the process would end and the previous results would be used as final values. In some distributions of the data (for example, when the statistics were dominated by a pair of companies with very dissimilar salary scales) this approach could yield unsatisfactory results. In the more common curve smoothing exercises employed by many corporations to examine compensation practices, such problems can be handled through trial-and-error tests until a satisfactory outcome is reached. That sort of solution is less feasible for EMC, both because of the volume of curves the project generates, and because highly consistent methods are needed to provide a degree of comparability among different results in any one year, as well as among results over time, from one year to the next.

To provide improved results while still adhering to predictable methods, the curve-smoothing program was adjusted in 1987 to test the value of the exponent z, which ordinarily begins at 1.0, incrementing in steps of 0.1 until the sums of squares no longer shrink. When this process was completed for any given set of data, z was inspected to determine if it had only reached a relatively small value (2.0 out of a possible top value, set arbitrarily, of 15.0). If not, the process was automatically restarted, running a second time after re-initializing z to the higher starting value of 2.0.

This change leads, in almost every case, to the generation of a *pair* of curves—which is to say that EMC's original approach almost always yielded a solution before z had reached a very large value. Restarting the procedure provides a second possible solution and a second set of smooth curves, which can then be compared with the original set to choose the one with the best fit to theory (e.g., that salaries should increase most rapidly in early years and flatten with greater experience), as well as a good fit to the original data (that is, the curves should not grossly distort the raw results). The final curves are selected by choosing the version that comes closest to the raw data for the starting (less than one year), ten, and 25-year experience brackets (in some cases, adjacent brackets are used to compare the pair of curves, because of obvious sampling problems in the raw statistics). In 1990, EMC also computed and used curves with still higher initialization values of z, for a few cases where continuation of this iterative process resulted in more satisfactory outcomes. Over 95 percent of the curves depicted in this report were derived by iterations that were initialized at $z = 2.0$. The aerospace sector curves respond best to initializations at $z = 1.0$ (the same is often true for the relatively flat maturity curves developed by EMC for such groups as engineers in education). In a few cases, initialization values as high as 4.0 were used. Within sets of matched curves (for example, supervisory data for all engineers, supervisors with bachelors' degrees, supervisors with M.S. degrees, etc.), initialization values were held constant to improve the comparability of the data.

Note that these procedures only limit the starting points for the curve-smoothing computations; the actual results are generated by whatever value z has reached before the sum of squares begins to increase, a value that varies from one curve to the next. In practice, the following outcomes have been observed. EMC's traditional (pre-1987) curves, which did not provide for the use of starting values of z that were greater than 1.0 and which usually resulted from iterations that ended before z had reached a value of 2.0, tended to be "peaky" (although the peaks could occur outside the visible portion of a graph, so that some curves appeared as virtually straight lines). Often these curves did not seem to move down enough at the early (beginning) salary levels. The alternative curves, which are computed using higher starting values for z, behave differently. Usually (not inevitably, however) they conform more closely to the raw statistics for salaries of new engineers, at least when data are not limited to those with advanced degrees or supervisory responsibilities. These curves flatten out when they reach the higher experience brackets; in most cases, this also improves the fit of the curves to the raw data.

Beginning in 1987, EMC began to present its raw salary results as well as the smooth-curve estimates, doubling the amount of information provided by

these surveys and enabling more sophisticated interpretations of the statistics. This has allowed EMC to make distinctions between *factual outcomes for the companies participating in a survey*, which is what the raw statistics are, and *best estimates of the underlying general trends*.

The Commission is still not fully satisfied with its curve-smoothing methods; least-squares computations entail a number of logical and mathematical difficulties when applied to data on compensation. In particular, the computations are very sensitive to variations in the distribution of a set of engineers across experience brackets, and the curves for supervisors or engineers with M.S. or Ph.D degrees tend to overestimate rates of compensation for the more recent entrants to the profession. Other methods, including the use of banded splines and anchoring points, have been applied by organizations that do not have EMC's need for an approach that can be rapidly and consistently applied to a broad range of national data from many different sectors. The Commission is continuing its study of these alternatives, and further refinements of our methods are anticipated. The general method of maturity curves is widely used as a means to assess the compensation of engineers, and EMC expects to continue to contribute to the development of these tools, as it has in the past.

PRESENTATION OF RESULTS

Curves and tables in this report are arranged in a hierarchy, starting with the broadest grouping ("All Industries") and then working through specific sectors, to the extent permitted by the data and the rules and conventions discussed above.

The "All Industries" data are extensive, and include details for supervisors, nonsupervisors, and variations by size of employer and region of the nation. Next, data are presented for "All Manufacturing Industries," and for the industrial sectors that are in that group. The report concludes with a similar section for "All Non-Manufacturing Industries."

The table of contents for this report can assist users in locating comparative data of interest. The specific participating organizations in each sector are identified in the appendices, so that users can better judge the applicability of the information given for a particular sector to their own situations.

The tabulations accompanying the curves include mean salaries (not plotted) and the distribution of the cases among the various experience brackets. The tables also list the numbers of cases falling in the extreme salary brackets (for industry data in 1990, less than $22,000 or more than $125,000). The tabulations also provide summary data for salaries across all experience brackets. Such broad statistics are unlikely to be applicable to specific engineers, but they are useful in assessing differences among groups. Since these data are now routinely provided in the tables, the brief discussion of overall salary outcomes that was once included in these introductions has been dropped from the text.

Data provided by participants in EMC salary surveys are confidential. Only aggregates are presented. Only EMC staff have access to completed forms. Forms do not identify salaries of particular persons.

DEFINITIONS

1. Industrial Sectors and Combined Groupings:

All Industries includes all participating organizations in the 1990 EMC salary survey (other than government or faculties of engineering schools).

All Manufacturing includes the following industrial sectors: aerospace; basic metals; chemicals; electric, electronic, and computing equipment; fabricated metal products; non-electric machinery; petroleum; precision instruments; other durable goods manufacturers; and other nondurable goods manufacturers.

Electric, Electronic and Computing Equipment is a summary grouping; in addition, separate reports are provided for manufacturers of electrical machinery, electronic equipment, and computing hardware or software.

Other Durable Goods Manufacturing and *Other Nondurable Goods Manufacturing* are residual sectors. They include organizations who judged that their businesses did not fit into any of the more traditional industrial sector categories; they also include additional organizations whose preferred sectors could not be formed due to a lack of a sufficient number of responding employers, data points, or both. "Durable Goods" are those with a normal usable life of at least three years. For 1990, the residual category includes manufacturers of automotive and related products, ships, ceramic products, lumber and wood products, and other durable goods that fit outside the categories used for EMC's surveys. "Nondurable Goods" are those with a shorter usable life, and include paper, textiles, tires and other fabricated rubber products, and agricultural products.

Non-Manufacturing Industries is a summary group that includes communication services and utilities,construction, consulting and engineering services, electric and gas utilities, research organizations, and a miscellaneous residual group of "other" non-manufacturing organizations (see below).

Consulting and Engineering Services is a summary group; reports are provided on both components.

Electric and Gas Utilities is a summary group; separate reports are also provided for electrical utilities (which include combined electric and gas utilities), and for gas utilities (principally pipeline companies).

Other Non-Manufacturing is a residual group for non-manufacturing participants whose preferred classifications could be not formed, due to lack of sufficient data. In 1990, the group includes companies or organizations in mining, business/trade/publishing, and professional societies.

Large Industrial Employers have 5,000 or more employees; *Medium Industrial Employers* have between 500 and 4,999 employees; *Small Industrial Employers* have less than 500 employees.

A list of the regional classifications used in this report is included at the beginning of the tabulations by region.

2. Chart Data (a facsimile chart is provided in the appendices for readers wishing to plot their own data):

The *median* is the point in a ranked array that is the midpoint of the series: the 50th percentile. *Quartiles* are points in ranked arrays that divide the series into quarters. The lower quartile is the 25th percentile; the upper quartile is the 75th percentile. *Deciles* are points in ranked arrays that divide the series into tenths. The lower decile is the 10th percentile; the upper decile is the 90th percentile.

Mean: sum of the values of the data, divided by the number of cases (data points). Provided as a convenience, but rarely used in analyses of income data, because means are sensitive to extreme values, while medians are not.

Supervisors: those "whose duties are primarily managerial or supervisory," whether or not they currently work in engineering positions. Some participating organizations indicate that they do not report salaries of top managers. Precise definitions of "supervisor" vary from one organization to the next.

Years Since Baccalaureate Degree: a measure of experience. In 1990, an engineer with zero years of experience received the bachelors' degree in 1989 or the first quarter of 1990. Engineers with more experience may have been working or may have been pursuing advanced degrees.

3. *Data on bonuses or other forms of special incentive Compensation:* one-time special payments have become a more common component of engineering pay. EMC has traditionally tracked base salaries only. Beginning in 1989, however, EMC's survey included a special question to estimate the percentage of supervisors and non-supervisors who received additional special compensation, in recognition of the trend toward increased use of bonuses. The item applies to the *previous* year (1989, for the 1990 survey); the question is necessarily retrospective, since 1990 bonuses would not have been paid at the time of the study). Results for this item are reported in the table on the following page. Data for this item from EMC's previous compensation survey are also included.

PERCENTAGES OF ENGINEERS WHO RECEIVED BONUSES OR OTHER FORMS OF SPECIAL INCENTIVE COMPENSATION IN 1988 AND 1989:

Industry Group:	Supervisors: 1988	Supervisors: 1989	Non-Supervisors: 1988	Non-Supervisors: 1989	All Engineers: 1988	All Engineers: 1989
All Industries	14.1%	39.8%	14.0%	17.2%	14.0%	24.2%
All Manufacturing	13.5	14.8	10.1	20.8	10.8	19.5
Aerospace	0.8	2.6	1.1	0.3	1.1	0.7
Automotive Products*	1.4	-	0.0	-	0.3	-
Basic Metals*	-	57.8	-	54.3	-	55.5
Chemicals/Drugs/Plastics	38.2	26.9	26.0	19.5	29.0	21.6
Electric Machinery/Electronics/Computers	8.9	12.7	20.3	22.1	18.7	20.5
Electrical Machinery	27.5	22.2	26.1	13.8	26.5	16.6
Electronic Equipment	5.5	6.6	20.8	22.2	18.9	19.9
Computing Systems	6.6	19.3	4.7	8.6	5.2	11.2
Fabricated Metal Products	11.4	4.2	2.6	2.1	4.5	2.7
Non-Electric Machinery	36.3	23.8	15.0	4.0	22.1	10.2
Petroleum	1.4	2.5	0.3	0.1	0.7	0.9
Precision Instruments	0.0	14.4	0.1	0.4	0.1	3.0
Other Durable Goods Manufacturing	5.6	5.0	0.0	0.9	1.2	1.3
Other Nondurable Goods Manufacturing	21.6	4.6	0.0	0.6	7.8	1.6
All Non-Manufacturing	15.5	59.0	20.3	9.0	19.0	31.7
Communication Services	0.0	8.1	0.0	5.5	0.0	6.6
Construction	1.6	5.3	0.7	0.4	0.9	2.0
Consulting/Engineering Services	12.5	20.0	5.9	7.0	7.6	10.4
Consulting	13.8	31.0	6.4	14.3	8.5	19.7
Engineering Services	9.9	14.9	5.2	3.0	6.2	6.0
Electric/Gas Utilities	8.2	17.9	4.7	9.1	5.8	11.9
Electric Utilities	7.2	17.2	4.9	9.4	5.6	11.9
Gas Utilities	21.2	28.6	0.7	3.5	9.5	13.2
Research Organizations	30.0	83.3	42.7	11.7	39.9	55.9
Other Non-Manufacturers	-	1.0	-	2.4	-	1.8

*Notes: this item was included for the first time in EMC's 1989 compensation surveys, and more organizations were prepared to respond to it in 1990. Because some companies are counted in more than one sector, the percentages from one group to another—and from components of summary groups to the summary categories themselves—are not mutually exclusive (which is why the percentage of non-supervisors reported to have been paid bonuses in 1990 is higher for the combined "Electric Machinery/Electronics/Computer" sector than it is for any of the individual components of that sector). No separate sector was formed for basic metals in 1989; no separate sector was formed for automotive products in 1990. The sector for "Other Non-Manufacturers" was not separately assessed in 1989.

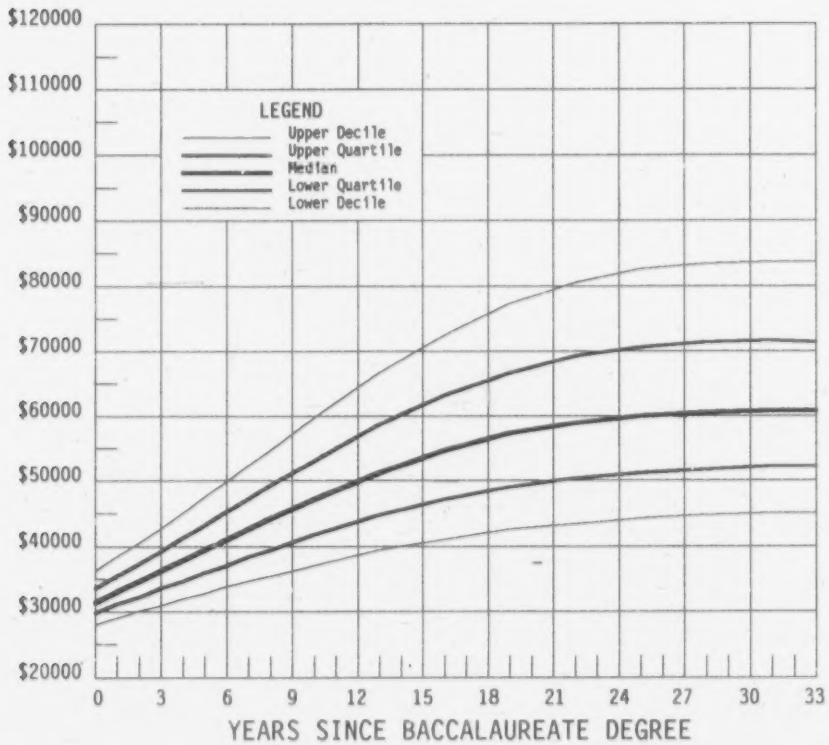
DISTRIBUTION OF RESPONSES, 1990

Industry Group:	Participating Organizations:	Engineers Represented:	All Employed Engineers (BLS Data for 1988):	Sector Weight:
All Industries	301	115,606	1,194,086	N/App
All Manufacturing	138	52,817	736,885	N/App
Aerospace	14	13,034	155,098	1.15[illegible]
Basic Metals	5	1,026	15,471	1.45[illegible]8
Chemicals/Drugs/Plastics	15	14,099	41,313	0.28369
Electric Machinery/Electronics/Computers	42	11,514	265,894	2.23577
Electrical Machinery	10	2,987	-	-
Electronic Equipment	28	8,195	-	-
Computers	4	332	-	-
Fabricated Metal Products	11	1,132	23,242	1.98780
Non-Electric Machinery	19	588	57,574	9.47968
Petroleum	6	4,639	30,380	0.63403
Precision Instruments	4	490	51,195	10.11524
Other Durable Goods Manufacturing	11	4,626	57,716	1.20791
Other Nondurable Goods Manufacturing	11	1,669	39,002	2.26243
All Non-Manufacturing	163	62,789	457,201	N/App
Communication Services	6	2,641	31,822	1.16655
Construction	5	1,830	23,451	1.24067
Consulting/Engineering Services	68	17,393	155,082	0.86324
Consulting	50	9,090	-	-
Engineering Services	18	8,303	-	-
Electric/Gas Utilities	49	13,026	38,587	0.28680
Electric Utilities	40	12,397	-	-
Gas Utilities	9	629	-	-
Research & Other Non-Manufacturing	35	27,899	208,259	0.72270
Research & Development Organizations	26	27,672	-	-
Other Non-Manufacturing	9	227	-	-

NOTES: Participating organizations counted in primary (first-named) sector only. Totals in specific tables may not exactly match these numbers, due to rounding in the weighting process. Additional weights, not depicted here, were used for the "All Manufacturing" and "All Non-Manufacturing" groups. Data for engineers in government are not used in this table; those figures add 184,774 engineers to the BLS work force estimates. In general, statistics from the current (1988) BLS Industry-and-Occupation Matrix have been regrouped here, to accomodate EMC's broader sectoral definitions.

CURVES AND TABLES FOR ALL INDUSTRIES

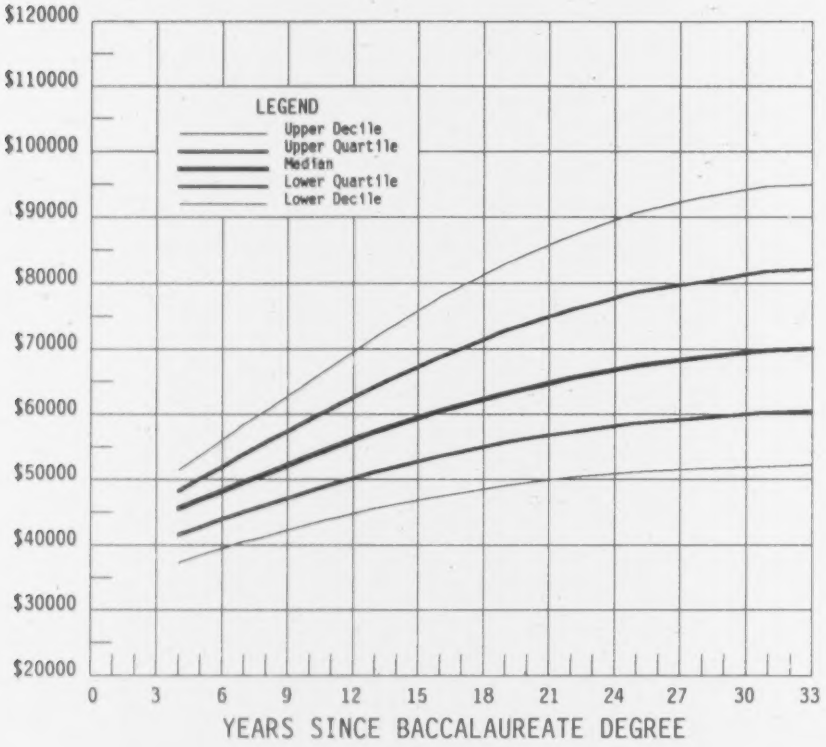
SALARY CURVES FOR ENGINEERS IN ALL INDUSTRY
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ALL INDUSTRY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	36200	38350	40550	42800	45100	47500	49900	52350	54800	59650	66550	72550	77250	80550	82550	83550	83800	83250	71200
Upper Quartile	33650	35500	37350	39300	41250	43250	45250	47300	49300	53200	58650	63250	66800	69300	70750	71450	71650	71150	59300
Median	31600	33100	34700	36250	37850	39450	41050	42650	44200	47200	51250	54650	57200	59000	60050	60600	60750	60550	48650
Lower Quartile	29850	31100	32300	33550	34750	36000	37200	38400	39550	41750	44700	47150	49050	50400	51300	51850	52150	52250	39700
Lower Decile	28100	29050	30000	31000	31950	32850	33800	34700	35550	37200	39350	41150	42550	43600	44350	44800	45100	45300	33700
Mean	31900	33450	35050	36650	38300	39900	41550	43200	44800	47950	52250	55900	58800	60950	62350	63150	63500	63600	51150
Raw (Unsmoothed) Statistics																			
Upper Decile	35250	37350	40650	43100	45700	48050	50250	53550	55850	60350	65800	71000	74950	79700	82300	83850	84400	85100	71200
Upper Quartile	33200	34750	37150	39300	41250	43550	45700	48500	50350	54100	58350	62100	64100	68750	70850	71250	71650	73050	59300
Median	31500	32750	34300	36050	37900	39600	41200	43450	45000	47750	51250	53900	55500	58650	60150	60650	60800	61500	48650
Lower Quartile	30200	30850	31950	33250	34600	36200	37100	38850	40050	42250	44500	46300	47950	50650	52150	52350	52700	51950	39700
Lower Decile	28400	28950	30000	30600	32000	32900	33300	35000	35900	37550	39000	40700	42100	44050	44850	45300	45350	44850	33700
Mean	31850	33100	34900	36500	38300	40050	41500	43900	45450	48550	52000	55100	57350	60900	52700	63300	63750	64150	51150
Supporting Data																			
Total Number	2623	3661	3632	4409	5110	5231	4815	4937	4766	13836	9895	9238	9043	7293	6920	5772	5427	8996	115606
$125,000 or More	0	0	0	0	0	0	0	0	0	1	1	8	23	33	40	38	42	91	277
Less Than $22000	19	31	15	4	11	3	2	3	2	3	0	1	0	1	1	0	0	0	97

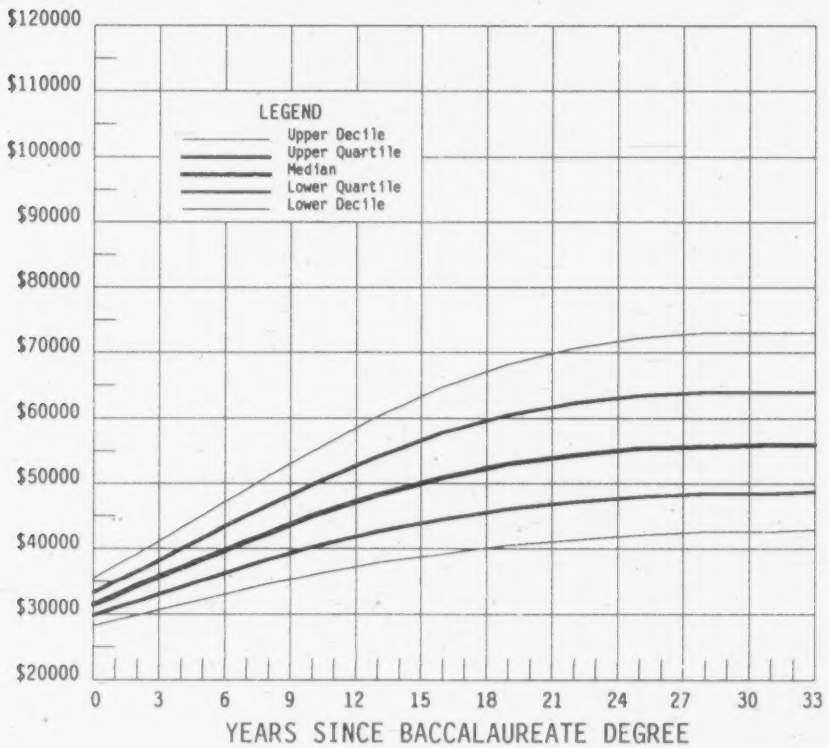
SALARY CURVES FOR ENGINEERS IN ALL INDUSTRY SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ALL INDUSTRY, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	51400	53700	55950	58300	60600	65150	71800	77850	83050	87300	90600	92950	94600	96450	82850
Upper Quartile	0	0	0	0	48300	50150	52000	53850	55650	59250	64350	68900	72850	76050	78550	80400	81750	83350	70600
Median	0	0	0	0	45550	46950	48350	49700	51050	53650	57250	60500	63250	65550	67350	68750	69750	71150	59300
Lower Quartile	0	0	0	0	41600	42750	43900	45050	46150	48250	51100	53600	55650	57300	58600	59550	60250	61100	50600
Lower Decile	0	0	0	0	37450	38450	39500	40450	41450	43250	45650	47600	49200	50350	51200	51750	52100	52450	43450
Mean	0	0	0	0	45050	46600	48150	49650	51200	54150	58300	62050	65250	67950	70050	71650	72800	74350	62050
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	50050	53150	55150	58800	61050	66650	71900	76700	81550	88100	90000	93200	95350	96850	82850
Upper Quartile	0	0	0	0	47600	49700	51450	54650	56300	59850	63900	68450	72200	76800	78200	80850	82550	83000	70600
Median	0	0	0	0	44750	46700	47800	50500	51300	54200	57050	60300	62200	66400	67650	68400	69800	71250	59300
Lower Quartile	0	0	0	0	41350	42600	42900	45700	46100	48700	51150	53600	54500	57800	58550	59850	60950	60800	50600
Lower Decile	0	0	0	0	37650	37950	38750	41850	41350	43450	45150	47450	48400	51500	51800	51250	53450	51650	43450
Mean	0	0	0	0	44550	46400	47450	50400	51400	54700	58050	61650	64400	68900	70050	71650	73550	74000	62050
Supporting Data																			
Total Number	113	357	400	602	724	795	865	1129	1172	4162	3674	3775	3741	3140	3101	2357	2132	3386	35627
$125,000 or More	0	0	0	0	0	0	0	0	0	0	1	7	23	33	37	36	42	86	265
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2

SALARY CURVES FOR ENGINEERS IN ALL INDUSTRY NON-SUPERVISORS, ALL DEGREE LEVELS

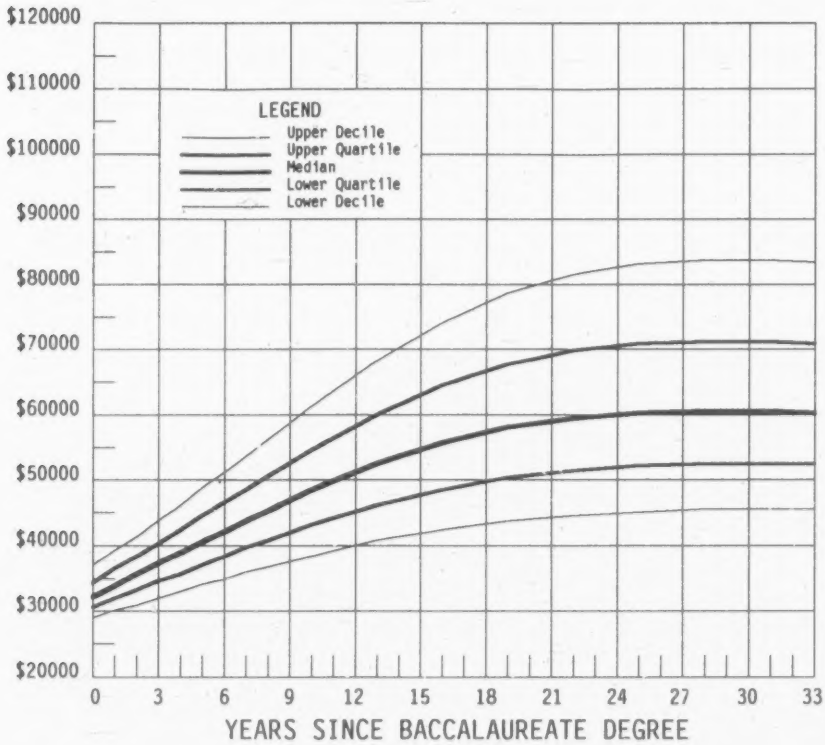


1990 ENGINEERING SALARY STATISTICS: ALL INDUSTRY, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	35400	37250	39150	41100	43100	45100	47100	49100	51100	54950	60300	64850	68300	70750	72250	72950	73200	72850	62400
Upper Quartile	33250	34900	36550	38250	39950	41650	43350	45050	46700	49900	54250	57800	60500	62350	63450	63950	64100	63750	53450
Median	31550	32900	34300	35650	37050	38450	39800	41150	42450	44950	48250	51000	53050	54450	55350	55800	56000	55850	44400
Lower Quartile	29900	31000	32100	33150	34250	35300	36300	37300	38300	40150	42600	44600	46100	47250	47950	48450	48650	48800	37100
Lower Decile	28150	29000	29850	30650	31500	32300	33100	33850	34550	35950	37800	39300	40500	41450	42100	42550	42800	43100	32450
Mean	31700	33050	34450	35850	37250	38650	40000	41400	42700	45250	48700	51600	53800	55400	56450	57050	57300	57400	46250
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	35050	36550	39300	40700	43300	45500	47450	49950	52450	55850	59800	63500	65550	69250	72450	73050	72950	75150	62400
Upper Quartile	33100	34300	36300	37800	40100	42200	43950	45950	47650	50600	54050	56350	58350	61450	63000	64100	63900	65750	53450
Median	31400	32500	33850	35400	37200	38800	40200	41950	43500	45450	47800	49550	51750	54050	55450	56200	56250	56750	44400
Lower Quartile	30200	30700	31600	32850	34100	35650	36300	37800	39000	40850	42200	43550	45050	46900	48100	49350	49150	49000	37100
Lower Decile	28350	28750	29750	30350	31600	32500	32700	34250	34800	36450	37400	38550	39950	41500	42650	43200	43450	42750	32450
Mean	31700	32700	34150	35550	37250	38950	40200	41950	43500	45900	48400	50550	52350	54850	56750	57450	57400	58200	46250
---------- Supporting Data ----------																			
Total Number	2508	3304	3234	3812	4383	4435	3952	3810	3594	9671	6222	5462	5301	4153	3824	3412	3293	5615	79979
$125,000 or More	0	0	0	0	0	0	0	0	0	1	0	2	0	0	3	1	0	5	12
Less Than $22000	19	31	15	4	11	3	2	3	2	3	0	1	0	0	0	0	0	0	95

ALL INDUSTRY CURVES AND TABLES, BY SIZE OF EMPLOYERS

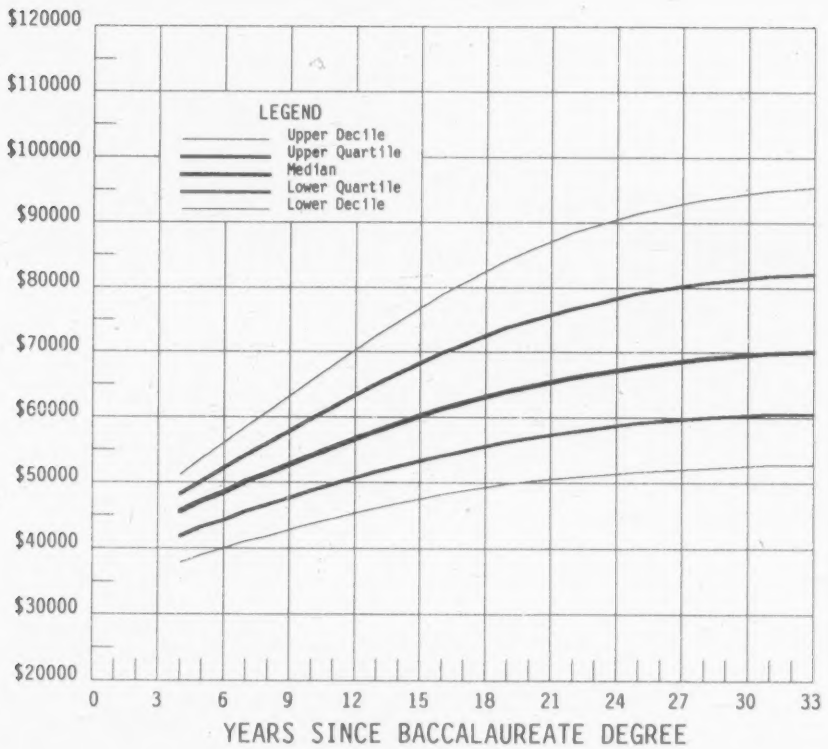
SALARY CURVES FOR ENGINEERS IN LARGE COMPANIES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: LARGE COMPANIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	37000	39200	41450	43800	46200	48700	51200	53700	56200	61200	68150	74050	78550	81500	83150	83750	83650	82500	71500
Upper Quartile	34500	36450	38400	40400	42450	44500	46600	48650	50700	54650	60100	64550	67800	69900	70950	71300	71150	70150	59800
Median	32350	33950	35600	37250	38900	40600	42250	43850	45450	48500	52550	55800	58150	59600	60350	60600	60450	59800	49950
Lower Quartile	30700	31950	33250	34550	35850	37150	38400	39650	40850	43100	46100	48500	50300	51500	52200	52550	52650	52500	41350
Lower Decile	28950	30000	31000	32050	33050	34050	35000	35950	36850	38500	40700	42450	43750	44650	45200	45500	45650	45600	34850
Mean	32800	34450	36050	37750	39400	41100	42800	44450	46100	49300	53600	57150	59900	61750	62900	63450	63600	63300	52100
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	35650	38000	41900	44150	46800	49300	51400	54950	57700	62100	67150	72350	75500	80400	83150	84350	84600	84400	71500
Upper Quartile	33550	35300	38100	40900	43050	44950	46600	50200	52150	55600	59400	63000	64750	69050	71300	71500	71450	72100	59800
Median	32000	33350	35050	37200	39300	41050	42450	44700	46200	49100	52600	54900	56100	58800	60550	60800	60500	61000	49950
Lower Quartile	30700	31700	32650	34350	36200	37250	38350	40450	41350	43600	45800	47500	49100	51450	52800	53300	53250	52300	41350
Lower Decile	29700	30250	30650	31450	32900	33800	34400	36150	37300	39100	40500	42050	43300	45000	45250	46150	46050	45100	34850
Mean	32500	34050	35800	37700	39600	41300	42650	45250	46850	49950	53250	56300	58100	61600	63450	63950	63900	63750	52100
---------- Supporting Data ----------																			
Total Number	1423	2168	2098	2408	2798	3172	2936	3057	3080	8781	6075	5482	5519	4406	3982	3610	3354	5019	69375
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	5	16	29	31	30	22	43	175
Less Than $22000	2	1	2	0	8	0	0	0	1	2	0	0	0	1	1	0	0	0	19

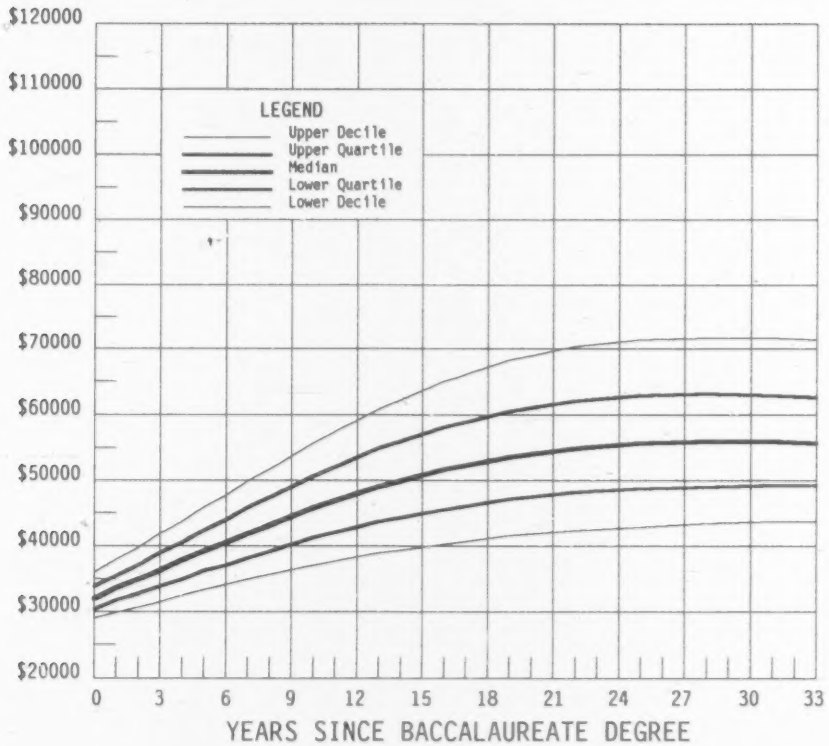
SALARY CURVES FOR ENGINEERS IN LARGE COMPANIES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: LARGE COMPANIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	51200	53550	55950	58400	60800	65650	72600	78850	84200	88450	91550	93700	95050	96350	81800
Upper Quartile	0	0	0	0	48250	50200	52150	54050	56000	59750	65050	69800	73750	76900	79250	80900	81950	83150	69550
Median	0	0	0	0	45700	47150	48650	50050	51450	54200	57900	61200	63900	66100	67750	68950	69800	70850	58500
Lower Quartile	0	0	0	0	41900	43150	44350	45500	46650	48800	51750	54250	56300	57900	59100	59900	60500	61100	49800
Lower Decile	0	0	0	0	38000	39050	40050	41000	42000	43800	46200	48150	49750	50950	51800	52350	52750	53100	42700
Mean	0	0	0	0	45100	46750	48350	49950	51550	54650	59000	62800	66050	68650	70650	72100	73100	74250	61200
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	49900	53550	55250	58800	61450	66850	72450	77850	81850	88650	93350	94300	95950	95800	81800
Upper Quartile	0	0	0	0	47600	49900	51600	54850	56800	60300	64450	69250	73000	77550	79300	81700	82900	82300	69550
Median	0	0	0	0	44750	47300	47800	50950	51750	54850	57650	60600	62900	66400	68650	69450	69850	70500	58500
Lower Quartile	0	0	0	0	41550	43350	43200	46150	46300	49350	51950	54100	55100	57700	59750	60450	61150	60650	49800
Lower Decile	0	0	0	0	37950	38950	39100	42050	41350	44050	46500	48150	48400	50950	52850	52600	53400	52500	42700
Mean	0	0	0	0	44600	46850	47550	50650	51650	55200	58650	62350	64950	69200	71500	72800	73650	73400	61200
Supporting Data																			
Total Number	107	330	373	562	641	684	711	959	985	3284	2652	2519	2379	2000	1795	1551	1371	1941	24846
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	5	16	29	28	29	22	43	172
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2

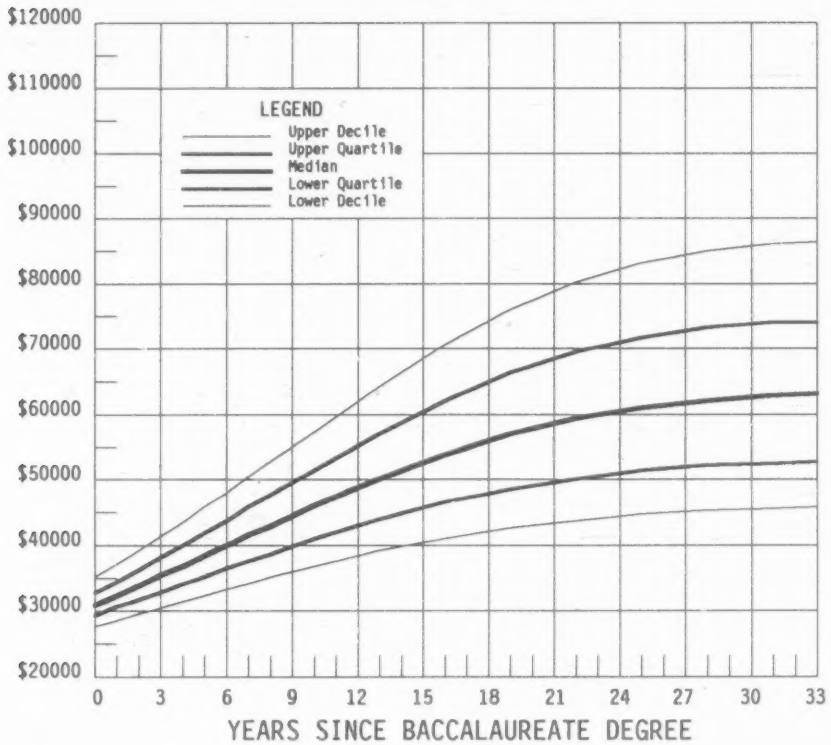
SALARY CURVES FOR ENGINEERS IN LARGE COMPANIES NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: LARGE COMPANIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	35900	37800	39750	41750	43750	45800	47850	49850	51850	55700	60900	65200	68300	70350	71400	71750	71650	70800	62350
Upper Quartile	33800	35500	37200	38900	40650	42400	44100	45800	47450	50650	54850	58200	60600	62100	62850	63100	62950	62250	54300
Median	32100	33550	34950	36400	37800	39250	40650	42000	43300	45850	49150	51750	53700	54950	55650	55950	55950	55600	45450
Lower Quartile	30500	31650	32800	33900	35050	36150	37200	38250	39300	41200	43650	45650	47150	48150	48800	49150	49300	49250	38400
Lower Decile	28950	29800	30700	31600	32450	33250	34100	34850	35600	37050	38900	40400	41600	42450	43050	43450	43700	43850	33200
Mean	32350	33750	35200	36650	38050	39500	40900	42250	43600	46150	49550	52250	54300	55700	56550	56950	57050	56850	47050
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	35450	37100	39900	41050	43800	46050	48250	50950	53900	56950	60300	63750	64950	68400	71350	71400	71500	73800	62350
Upper Quartile	33450	34950	36850	38450	40800	43000	44700	46450	48900	51400	54550	56750	58250	60750	62700	63300	62850	64250	54300
Median	31800	33050	34350	36150	38300	39850	41250	42700	44450	46150	48500	50150	52650	54600	55750	56200	56150	56500	45450
Lower Quartile	30600	31350	32250	33450	35250	36450	37350	38900	40000	41900	43050	44500	46050	47850	48600	50250	50050	49350	38400
Lower Decile	29600	30150	30400	30750	32350	33050	33650	34950	36050	37700	38400	39900	41500	42700	43350	44150	44250	43150	33200
Mean	32300	33550	34800	36150	38150	39750	41100	42750	44600	46850	49050	51150	52950	55200	56750	57250	57200	57650	47050
---------- Supporting Data ----------																			
Total Number	1313	1837	1727	1847	2157	2484	2225	2102	2093	5499	3430	2965	3143	2403	2184	2060	1981	3079	44529
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3
Less Than $22000	2	1	2	0	8	0	0	0	1	2	0	0	0	0	0	0	0	0	17

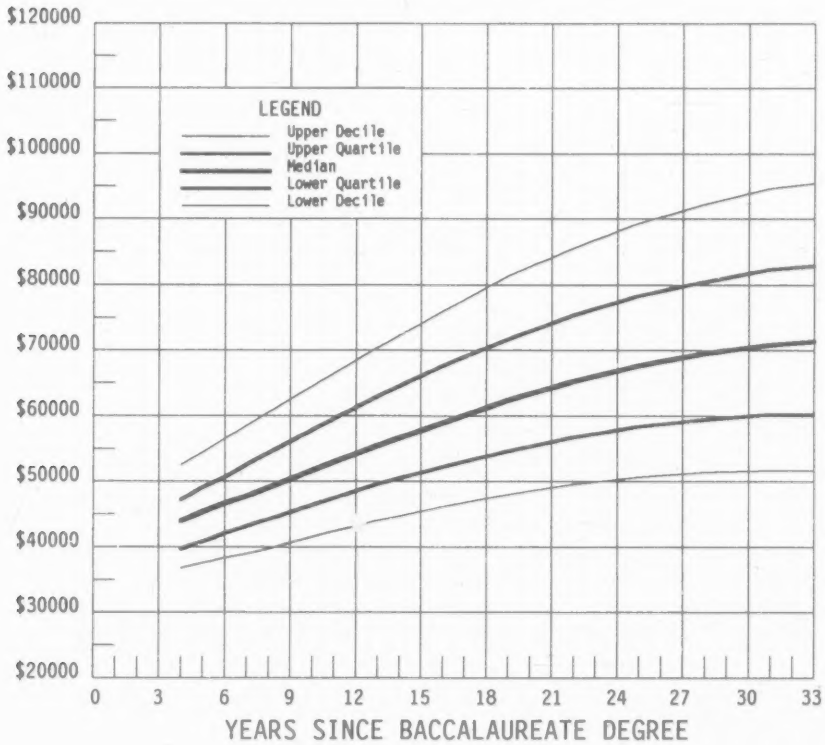
SALARY CURVES FOR ENGINEERS IN MEDIUM-SIZED COMPANIES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: MEDIUM-SIZED COMPANIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	35150	37100	39200	41300	43500	45750	48050	50400	52750	57450	64350	70650	75950	80150	83100	85050	86150	86950	73000
Upper Quartile	32700	34450	36250	38050	39950	41850	43800	45750	47700	51600	57150	62150	66300	69500	71800	73250	74100	74750	60450
Median	30900	32350	33850	35350	36900	38400	39950	41500	43050	46050	50250	53950	57000	59400	61100	62250	63000	63650	48700
Lower Quartile	29350	30550	31700	32900	34100	35300	36500	37650	38800	40950	43950	46550	48600	50200	51350	52150	ↄ2600	53100	39500
Lower Decile	27600	28550	29550	30500	31450	32400	33300	34250	35100	36800	39100	41050	42600	43800	44700	45300	45700	46150	33700
Mean	31250	32700	34200	35750	37300	38900	40500	42050	43650	46750	51200	55100	58400	61000	62950	64300	65150	66000	51550
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	35000	36000	39300	41250	44150	45850	49050	51100	52600	57800	64200	69950	74750	80300	82050	84050	87150	88450	73000
Upper Quartile	32700	33700	36150	37850	40050	41750	44900	46650	48250	51850	57150	61900	64300	69700	71350	72550	75300	75800	60450
Median	31100	31850	33500	35100	36850	38400	40250	42400	44050	46400	50200	53750	55150	59900	60950	61550	63700	64450	48700
Lower Quartile	29750	29950	31050	32950	33700	36100	36850	38000	39500	41250	44000	45850	46900	51000	52500	51900	53350	52950	39500
Lower Decile	28150	27050	29000	30850	31550	33400	33450	35200	35650	36800	39000	40350	41600	44400	45450	44800	45200	46700	33700
Mean	31500	31800	33950	35800	37300	39150	40900	42800	44100	47050	51250	54550	57000	61550	62850	63300	66050	66750	51550
---------- Supporting Data ----------																			
Total Number	783	909	879	1108	1392	1232	1127	1241	1126	3613	2851	2828	2694	2126	2242	1568	1361	2778	31857
$125,000 or More	0	0	0	0	0	0	0	0	0	1	1	2	4	4	6	5	18	42	82
Less Than $22000	14	30	11	3	3	2	1	2	2	0	0	1	0	0	0	0	0	0	67

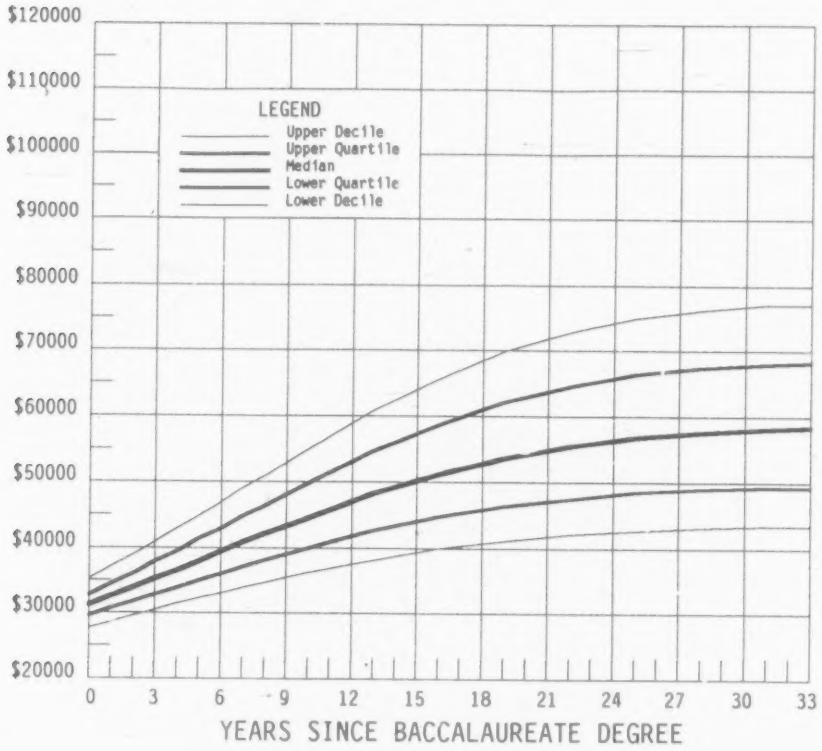
SALARY CURVES FOR ENGINEERS IN MEDIUM-SIZED COMPANIES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: MEDIUM-SIZED COMPANIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	0	0	0	0	52500	54450	56500	58500	60550	64600	70500	76100	81200	85600	89350	92400	94700	98100	85250
Upper Quartile	0	0	0	0	47250	49050	50800	52600	54350	57900	62950	67650	71850	75400	78300	80600	82300	84700	73350
Median	0	0	0	0	44100	45350	46600	47850	49150	51650	55400	59000	62300	65250	67700	69600	71050	72650	61750
Lower Quartile	0	0	0	0	39800	40900	42050	43150	44300	46450	49550	52350	54750	56750	58300	59450	60200	60900	52250
Lower Decile	0	0	0	0	36800	37550	38300	39050	39850	41500	43900	46150	48050	49550	50650	51350	51750	52100	45200
Mean	0	0	0	0	44400	45750	47150	48500	49900	52650	56700	60550	64100	67200	69800	71850	73300	75000	64300
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	0	0	0	0	55400	49750	55300	58550	59100	66850	71100	74550	81050	88400	86700	90100	98050	98900	85250
Upper Quartile	0	0	0	0	48300	46000	51300	52650	54350	58400	63300	67600	71100	77100	76250	80400	84550	84950	73350
Median	0	0	0	0	44600	43100	48200	47400	49250	51700	55350	60300	60400	66900	66900	67450	73350	73250	61750
Lower Quartile	0	0	0	0	39900	38900	41800	44500	45250	46950	48750	53150	53100	58450	58000	59150	62200	60450	52250
Lower Decile	0	0	0	0	38200	36250	37250	39600	41450	41900	42900	46100	47100	52850	51700	49600	53850	50200	45200
Mean	0	0	0	0	45350	43450	47300	48750	50300	53050	56750	60600	63200	69200	68400	69950	76350	75300	64300
---------- Supporting Data ----------																			
Total Number	6	15	23	35	60	86	123	133	144	646	801	1015	1073	852	1019	576	511	1053	8169
$125,000 or More	0	0	0	0	0	0	0	0	0	0	1	1	4	4	6	4	18	37	73
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

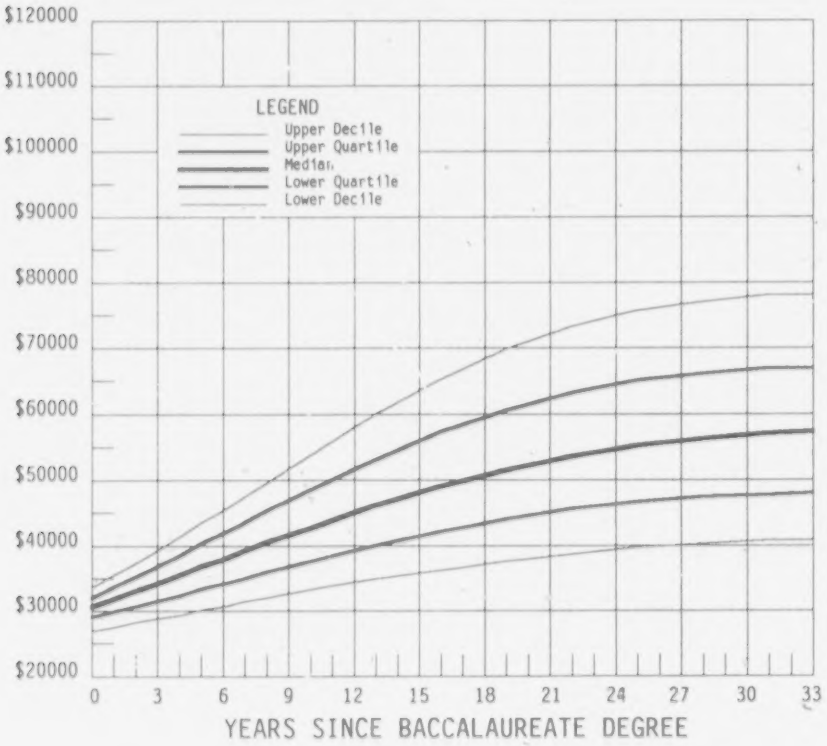
SALARY CURVES FOR ENGINEERS IN MEDIUM-SIZED COMPANIES NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: MEDIUM-SIZED COMPANIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	35150	37000	38900	40850	42850	44850	46900	48950	50950	55000	60700	65700	69800	72900	75000	76300	77000	77350	65100
Upper Quartile	32850	34450	36100	37800	39500	41250	43000	44700	46450	49850	54600	58700	62050	64600	66350	67450	68050	68450	54300
Median	31150	32500	33850	35250	36600	38000	39350	40700	42050	446	48150	51200	53650	55500	56850	57700	58200	58650	44850
Lower Quartile	29550	30650	31750	32850	33900	35000	36050	37100	38100	40000	42550	44700	46350	47600	48450	49000	49300	49600	37400
Lower Decile	27700	28600	29500	30450	31350	32200	33050	33900	34700	36250	38250	39900	41150	42100	42750	43150	43400	43600	32600
Mean	31300	32700	34100	35500	36950	38350	39800	41200	42600	45300	49050	52250	54850	56850	58200	59150	59650	60100	47150
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	34800	36000	39050	41050	43400	45300	47150	49900	51100	55450	60400	64500	67900	71250	76050	77200	76900	79000	65100
Upper Quartile	32700	33600	36050	37750	39750	41050	43850	45950	47000	50450	54550	57350	59950	64200	65200	67500	68950	70550	54300
Median	31100	31800	33450	35100	36650	38200	39850	41800	43200	45200	48200	50050	51400	54800	56350	57750	59150	60400	44850
Lower Quartile	29750	29850	31000	33000	33600	35950	36450	37650	39000	40400	42750	43500	44350	47650	48750	49600	48900	50750	37400
Lower Decile	28150	27000	28950	30900	31450	33250	33100	34950	35050	36450	38400	38750	39750	42300	42850	43100	42750	44950	32600
Mean	31400	31750	33750	35700	36950	38800	40150	42050	43100	45750	49100	51300	52900	56400	58300	59450	59850	61500	47150
---------- Supporting Data ----------																			
Total Number	776	894	855	1072	1335	1146	1010	1108	980	2968	2048	1816	1620	1274	1222	991	849	1729	23685
$125,000 or More	0	0	0	0	0	0	0	0	0	1	0	2	0	0	1	1	0	5	9
Less Than $22000	14	30	11	3	3	2	1	2	2	0	0	1	0	0	0	0	0	0	67

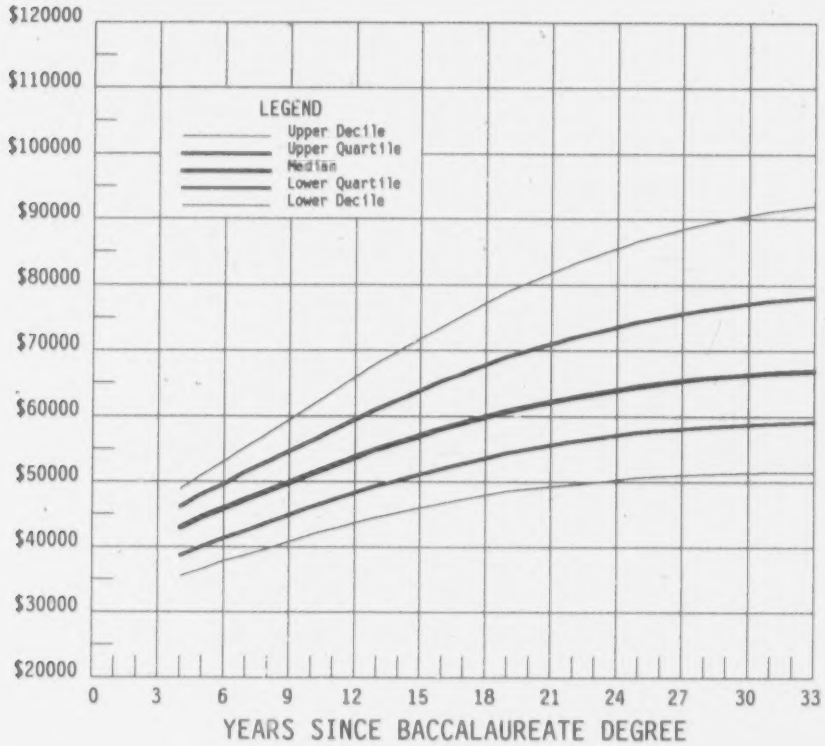
SALARY CURVES FOR ENGINEERS IN SMALL COMPANIES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: SMALL COMPANIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33650	35450	37350	39300	41300	43350	45450	47550	49650	53850	59900	65300	69800	73250	75700	77200	78050	78600	64100
Upper Quartile	32000	33550	35150	36800	38500	40150	41850	43550	45250	48550	53200	57300	60650	63200	65000	66200	66850	67350	52850
Median	30550	31800	33000	34250	35500	36750	38000	39250	40450	42800	46150	49050	51550	53[illegible]0	55100	56200	57000	57950	41650
Lower Quartile	29150	29950	30750	31600	32400	33300	34150	35000	35900	37600	40000	42200	44050	45550	46650	47350	47850	48200	34850
Lower Decile	26850	27500	28150	28800	29450	30100	30750	31400	32000	33200	34900	36400	37700	38800	39650	40250	40700	41150	30950
Mean	30350	31600	32900	34200	35550	36850	38200	39500	40850	43400	47000	50250	53000	55250	57000	58250	59100	60200	45400
Raw (Unsmoothed) Statistics																			
Upper Decile	33650	35500	37650	39050	40700	43400	46150	47500	49350	54800	59550	63800	70050	72750	77800	76850	75600	79500	64100
Upper Quartile	32150	33400	35350	36850	38150	39900	41800	43800	45300	49300	53100	56000	60900	64100	64650	66250	65450	67900	52850
Median	30550	31550	33050	34400	35750	36700	37700	39200	40400	43350	45600	48350	51650	53750	55350	57100	57000	57500	41650
Lower Quartile	28450	30050	30850	31600	32900	33450	33850	35300	36000	38000	38850	41100	44100	44750	47400	48150	49400	47900	34850
Lower Decile	25250	28000	28800	28300	30350	30700	30650	31400	31950	33700	33500	35450	36600	38900	41250	40900	42500	40400	30950
Mean	30150	31700	33150	34100	35700	36800	38000	39550	40600	43850	46450	49600	53250	55400	58100	59000	58700	59650	45400
Supporting Data																			
Total Number	417	582	655	900	918	825	751	634	563	1439	965	924	829	759	692	590	714	1193	14353
$125,000 or More	0	0	0	0	0	0	0	0	0	0	1	1	3	1	3	3	2	6	21
Less Than $22000	3	0	2	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	11

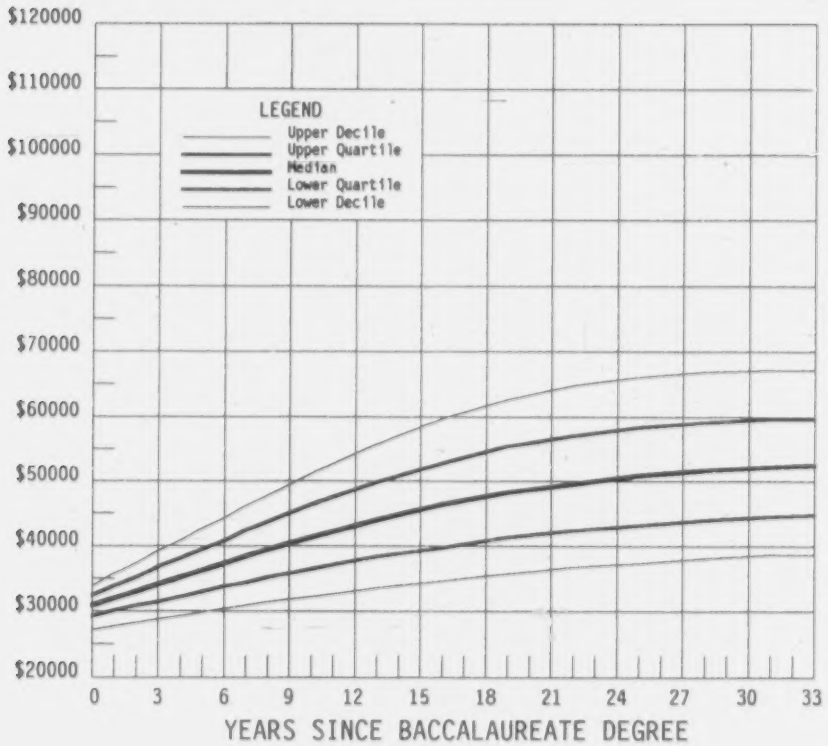
SALARY CURVES FOR ENGINEERS IN SMALL COMPANIES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: SMALL COMPANIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	48900	51000	53100	55250	57400	61650	67900	73700	78850	83200	86650	89350	91300	93800	83250
Upper Quartile	0	0	0	0	46250	47950	49650	51350	53050	56350	61050	65300	69000	72050	74500	76350	77700	79450	70750
Median	0	0	0	0	43050	44450	45850	47250	48600	51250	54900	58100	60800	62950	64650	65850	66700	67800	60650
Lower Quartile	0	0	0	0	38650	39950	41250	42500	43700	46100	49350	52100	54400	56200	57500	58400	59000	59650	52300
Lower Decile	0	0	0	0	35500	36650	37750	38800	39850	41850	44500	46700	48450	49700	50550	51100	51400	51600	46200
Mean	0	0	0	0	43050	44550	46100	47650	49150	52100	56300	60000	63200	65750	67800	69250	70300	71650	63450
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	51500	49900	51600	55400	55600	62000	67500	73200	81250	81700	87050	91900	86100	95200	83250
Upper Quartile	0	0	0	0	46600	46750	49250	51200	53300	56600	61350	63900	70200	72350	76200	74800	73750	81200	70750
Median	0	0	0	0	44500	40750	43900	46000	50150	52150	54900	57550	61650	65100	62750	63300	64550	70000	60650
Lower Quartile	0	0	0	0	31400	38100	41800	44500	46350	47900	49950	51450	55500	55850	54850	55450	57950	62650	52300
Lower Decile	0	0	0	0	30550	35100	39300	39600	44050	42750	44100	45050	50750	51150	47150	48550	52950	52600	46200
Mean	0	0	0	0	41750	43500	45400	47950	49500	52800	56400	59100	64700	66050	67050	67900	67550	73600	63450
Supporting Data																			
Total Number	0	11	4	5	25	21	33	36	41	235	222	240	290	283	281	230	249	388	2595
$125,000 or More	0	0	0	0	0	0	0	0	0	0	1	1	3	1	3	3	2	6	21
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SALARY CURVES FOR ENGINEERS IN SMALL COMPANIES
NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: SMALL COMPANIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33950	35650	37350	39100	40850	42600	44350	46100	47850	51200	55850	59750	62750	64900	66250	67000	67300	67200	55900
Upper Quartile	32450	33850	35250	36700	38100	39500	40900	42300	43650	46300	49850	52900	55350	57150	58400	59200	59650	60000	47100
Median	30950	32050	33100	34200	35250	36350	37400	38400	39400	41350	44000	46300	48200	49700	50850	51700	52250	53000	38950
Lower Quartile	29350	30100	30850	31600	32350	33100	33800	34500	35200	36500	38300	39850	41200	42350	43250	43950	44500	45250	33750
Lower Decile	27150	27700	28250	28800	29350	29850	30350	30900	31350	32300	33650	34800	35850	36750	37450	38100	38550	39300	30450
Mean	30700	31850	33000	34100	35250	36350	37450	38550	39600	41650	44400	46800	48750	50250	51350	52150	52650	53250	41400
Raw (Unsmoothed) Statistics																			
Upper Decile	33600	35200	37600	38950	40450	43100	45250	47000	47700	51950	54950	58750	60700	63150	65950	68750	67800	67750	55900
Upper Quartile	32100	33300	35300	36850	38000	39750	41300	43150	44450	46750	49400	51700	53050	55450	58600	61100	60350	60350	47100
Median	30550	31500	33000	34400	35700	36600	37450	38850	39800	41800	42950	45550	47250	48000	52250	52700	53150	52800	38950
Lower Quartile	28450	30000	30850	31550	32900	33350	33650	35050	35700	37000	37100	39150	39900	41250	44200	45100	46650	44550	33750
Lower Decile	25200	27950	28750	28250	30350	30600	30450	31250	31650	32900	31900	34100	33600	36950	38300	39100	41050	38550	30450
Mean	30150	31550	33100	34050	35500	36650	37650	39050	39950	42150	43500	46150	47050	49050	52050	53350	53850	53050	41400
Supporting Data																			
Total Number	416	572	650	894	892	803	717	598	522	1206	745	683	537	474	412	362	463	805	11755
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	3	0	2	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	11

ALL INDUSTRY CURVES AND TABLES, BY GEOGRAPHIC REGION

REGIONAL CLASSIFICATION:

New England:
- Connecticut
- Maine
- Massachusetts
- New Hampshire
- Rhode Island
- Vermont

Middle Atlantic:
- New Jersey
- New York
- Pennsylvania

East North Central:
- Illinois
- Indiana
- Michigan
- Ohio
- Wisconsin

West North Central:
- Iowa
- Kansas
- Minnesota
- Missouri
- Nebraska
- North Dakota
- South Dakota

South Atlantic:
- Delaware
- District of Columbia
- Florida
- Georgia
- Maryland
- North Carolina
- South Carolina
- Virginia
- West Virginia

East South Central:
- Alabama
- Kentucky
- Mississippi
- Tennessee

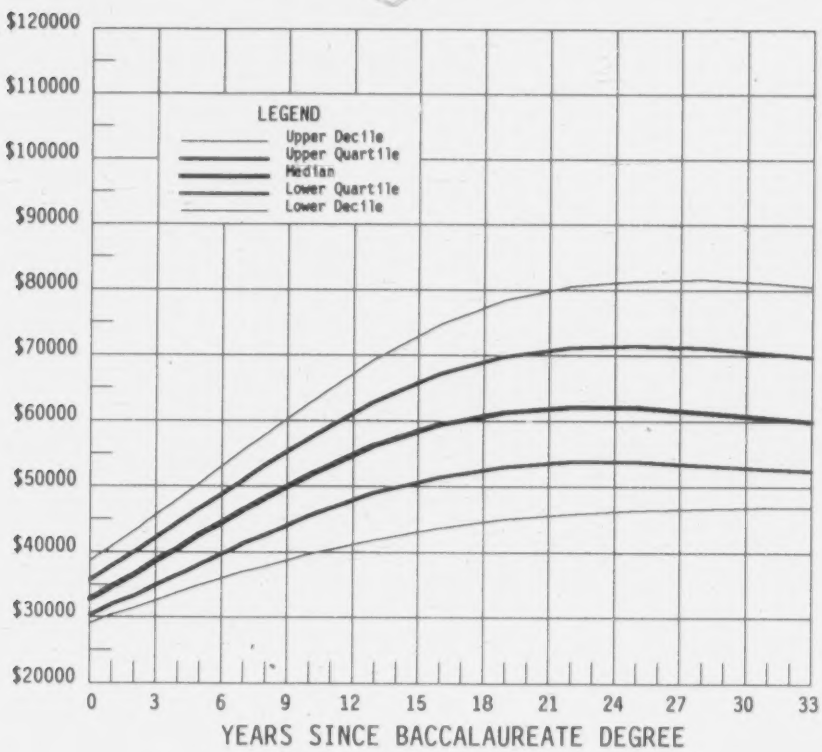
West South Central:
- Arkansas
- Louisiana
- Oklahoma
- Texas

Mountain:
- Arizona
- Colorado
- Idaho
- Montana
- Nevada
- New Mexico
- Utah
- Wyoming

Pacific:
- Alaska
- California
- Hawaii
- Oregon
- Washington

Note: some participating employers are multi-regional, i.e., classed in none of the above categories.

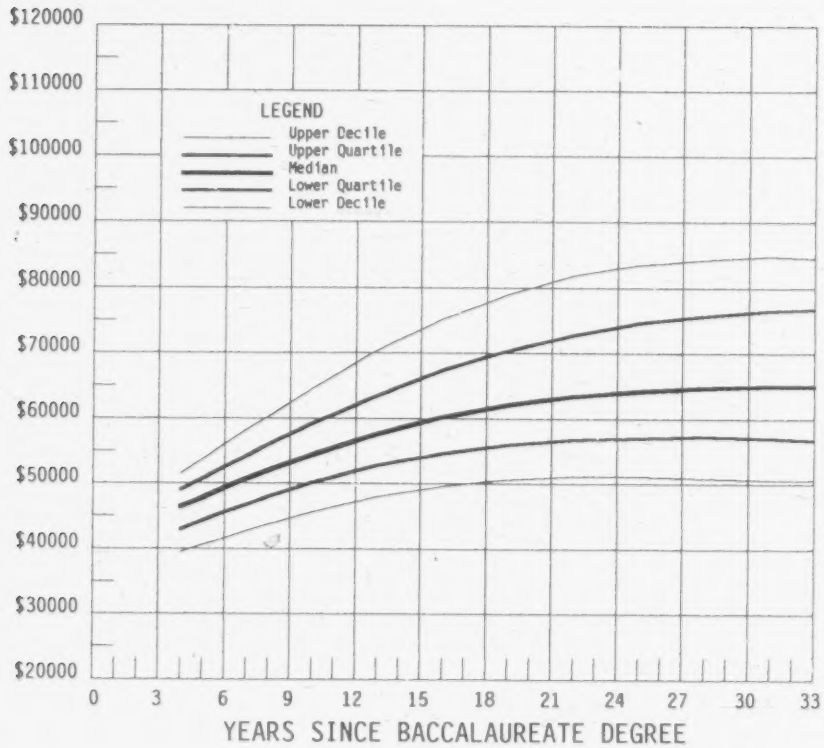
SALARY CURVES FOR ENGINEERS IN NEW ENGLAND
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: NEW ENGLAND

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	38600	40850	43200	45550	48000	50500	53000	55500	57950	62750	69300	74550	78300	80500	81450	81500	81000	79300	70550
Upper Quartile	35750	37850	40000	42150	44400	46600	48850	51050	53250	57450	62900	67150	69900	71250	71600	71150	70400	68400	60600
Median	32850	34750	36650	38600	40550	42550	44500	46400	48300	51800	56250	59500	61450	62200	62050	61400	60500	58500	51750
Lower Quartile	30350	31900	33450	35050	36650	38250	39800	41300	42800	45550	49000	51550	53100	53800	53850	53450	52900	51550	42150
Lower Decile	29100	30300	31500	32650	33800	34900	35950	37000	37950	39700	41950	43700	44950	45800	46350	46650	46850	46950	34950
Mean	33550	35350	37150	39000	40900	42750	44600	46450	48250	51600	56000	59350	61550	62700	63050	62800	62250	60800	52500
Raw (Unsmoothed) Statistics																			
Upper Decile	37950	38850	42700	45850	48950	51950	53600	57300	59500	63950	68150	72250	75600	78750	79950	81000	82200	84250	70550
Upper Quartile	33800	35400	39500	43100	45950	48600	50100	53650	55050	58550	61250	63700	66150	70250	71650	71550	72000	72500	60600
Median	31950	33450	35300	39100	41450	44200	45200	48900	49050	52750	55250	57500	58550	61050	61750	61950	62050	61000	51750
Lower Quartile	30750	31950	32900	34950	36550	38050	39500	41850	42650	46450	49100	50900	51550	53500	54600	54000	53150	51750	42150
Lower Decile	29950	30500	31400	32300	33150	34900	35400	37100	38000	39900	42450	44050	45600	45800	48250	47250	45400	43800	34950
Mean	33300	34100	36450	39300	41400	43700	44900	47950	48950	52500	55450	57800	59400	61900	63100	63000	63050	62850	52500
Supporting Data																			
Total Number	335	659	721	824	836	826	735	853	858	2543	1769	1607	1438	1156	1010	750	653	971	18543
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Less Than $22000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

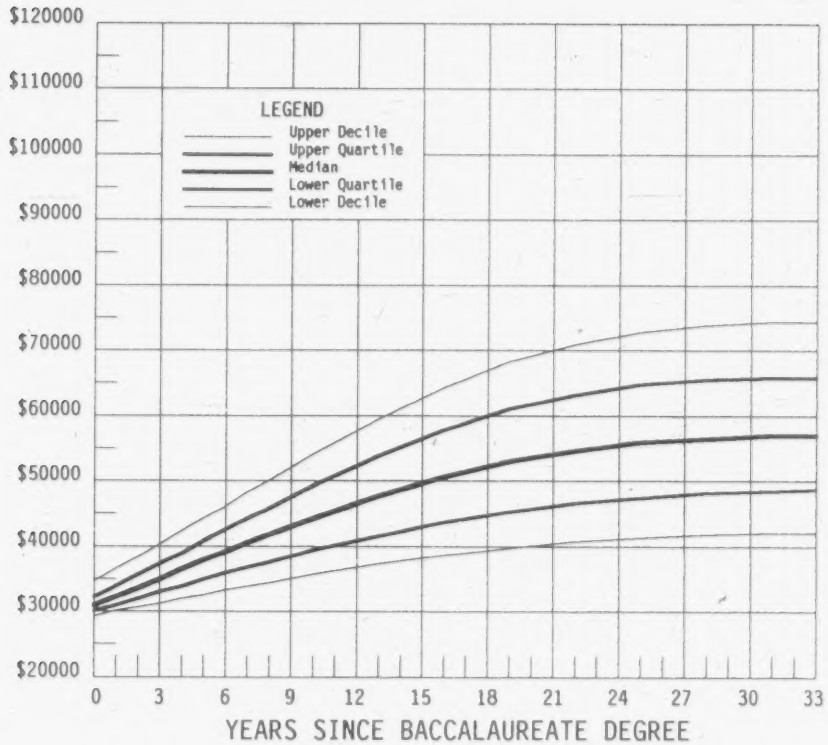
SALARY CURVES FOR ENGINEERS IN NEW ENGLAND
SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: NEW ENGLAND, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	0	0	0	0	51450	53700	55900	58100	60300	64550	70350	75250	79050	81750	83450	84350	84700	84550	73850
Upper Quartile	0	0	0	0	49050	50800	52500	54200	55900	59150	63600	67400	70500	72900	74650	75850	76550	77300	63350
Median	0	0	0	0	46400	47850	49250	50600	51950	54400	57650	60250	62200	63550	64400	64850	65050	65050	55500
Lower Quartile	0	0	0	0	42950	44250	45500	46750	47900	50050	52700	54700	56050	56800	57150	57200	57050	56500	48100
Lower Decile	0	0	0	0	39350	40550	41700	42800	43650	45700	48000	49650	50650	51150	51200	51050	50750	50000	41800
Mean	0	0	0	0	46000	47550	49100	50600	52050	54800	58450	61400	63650	65250	66250	66800	67050	67050	56700
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	0	0	0	0	49850	53800	55250	58750	61450	65950	70000	74600	77600	80600	82500	83700	85700	89350	73850
Upper Quartile	0	0	0	0	47650	50200	51900	55100	57550	60450	63200	66250	69050	72700	74550	75200	77400	81000	63350
Median	0	0	0	0	44900	47700	48500	51850	53100	55400	57500	59500	60700	63750	63800	64300	66150	67900	55500
Lower Quartile	0	0	0	0	41800	44350	44750	47900	48550	50750	52450	54100	54850	57350	56800	57200	58300	57800	48100
Lower Decile	0	0	0	0	38200	41100	41250	44200	43900	45950	47750	49600	49700	51850	51050	50400	52150	50800	41800
Mean	0	0	0	0	44650	47550	48400	51200	53000	55750	58250	60750	62200	65400	65650	66150	68250	69800	56700
---------- Supporting Data ----------																			
Total Number	86	262	297	442	494	487	450	581	520	1752	1277	1114	1012	784	648	445	373	448	11465
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

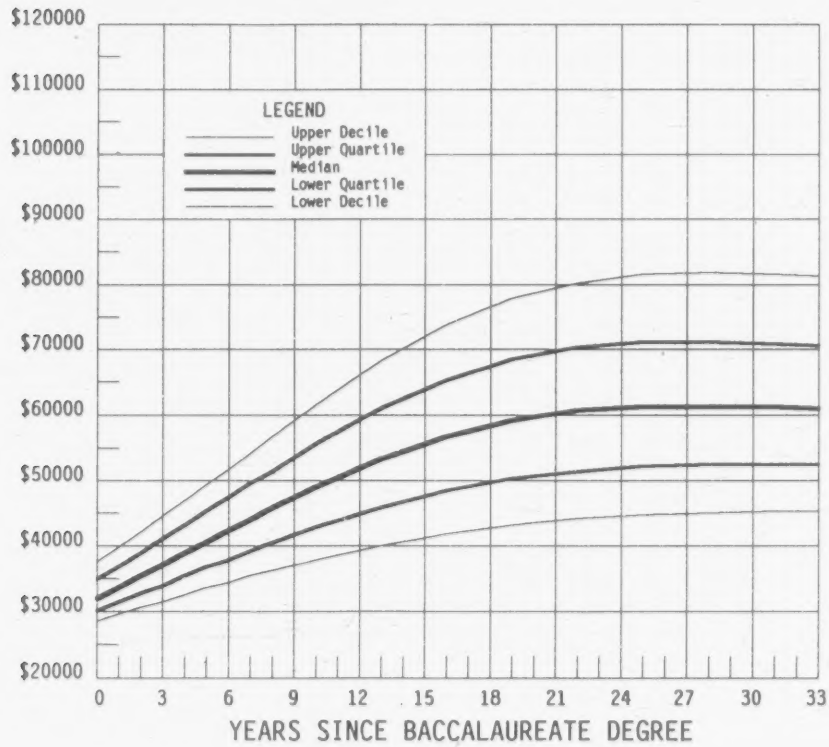
SALARY CURVES FOR ENGINEERS IN NEW ENGLAND
NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: NEW ENGLAND, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	34750	36550	38450	40350	42300	44250	46250	48250	50250	54100	59600	64350	68150	70900	72750	73850	74350	74450	63250
Upper Quartile	32400	34000	35650	37350	39050	40800	42550	44250	46000	49300	53950	57900	61000	63250	64750	65550	65950	65950	53400
Median	31000	32350	33700	35050	36400	37800	39150	40500	41800	44350	47800	50700	53050	54750	55900	56650	57000	57250	42900
Lower Quartile	30050	31050	32050	33000	34000	34950	35900	36800	37700	39400	41700	43700	45300	46550	47500	48150	48600	49150	35750
Lower Decile	29350	30000	30650	31300	31950	32600	33250	33850	34450	35650	37250	38650	39800	40750	41400	41900	42200	42450	32150
Mean	31500	32800	34150	35500	36900	38250	39600	40900	42200	44750	48200	51100	53500	55300	56550	57350	57850	58300	45650
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	36350	36200	37700	39600	41150	45300	46950	47650	50900	55500	59100	64400	66050	70150	73650	74100	72900	73950	63250
Upper Quartile	33350	33800	35200	37100	38900	40500	42350	43350	46550	50700	53550	58150	59350	62100	66250	66150	64850	65000	53400
Median	31450	32500	33350	34900	36250	37650	38850	39650	42200	45000	47950	50800	51650	54000	58100	58400	55250	55900	42900
Lower Quartile	30500	31050	32150	32650	33550	35250	35500	36700	38350	39400	41300	43300	45900	45300	50950	49400	46800	47500	35750
Lower Decile	29550	30100	30750	30800	32050	32450	32700	33500	35050	36000	37400	37900	40200	39650	44300	43400	39400	41300	32150
Mean	32500	32700	33850	35100	36550	38250	39350	40250	42700	45400	48200	51050	52700	54450	58550	58550	56300	56950	45650
---------- Supporting Data ----------																			
Total Number	250	398	424	382	341	339	285	273	337	791	493	491	427	369	358	306	277	523	7074
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

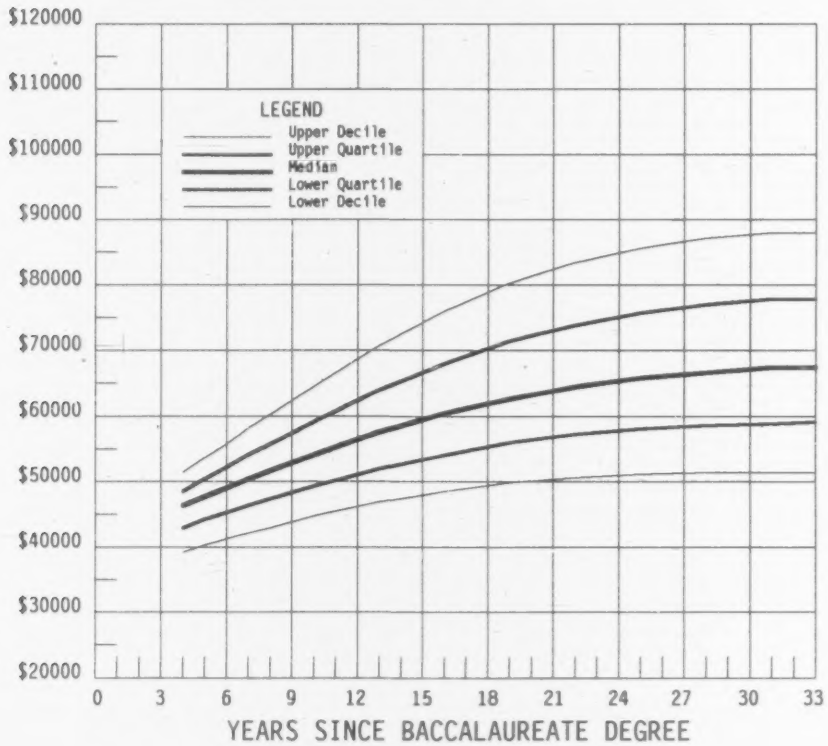
SALARY CURVES FOR ENGINEERS IN MID-ATLANTIC STATES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: MID-ATLANTIC STATES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	37600	39800	42100	44400	46850	49300	51750	54250	56700	61550	68250	73750	77800	80400	81650	81950	81650	80250	71900
Upper Quartile	34950	36900	38950	41000	43100	45250	47350	49500	51600	55600	61050	65450	68550	70400	71250	71300	70950	69600	61200
Median	31950	33600	35350	37100	38850	40600	42350	44100	45800	49050	53400	56850	59250	60700	61350	61450	61200	60250	51100
Lower Quartile	30050	31350	32700	34000	35350	36700	38000	39250	40500	42900	46000	48500	50350	51600	52300	52600	52650	52400	41350
Lower Decile	28600	29600	30600	31600	32550	33500	34450	35350	36250	37900	40100	41850	43200	44150	44800	45200	45400	45500	34600
Mean	32700	34350	36000	37750	39450	41200	42900	44600	46300	49500	53800	57350	59900	61600	62500	62850	62800	62200	52500
Raw (Unsmoothed) Statistics																			
Upper Decile	35550	38450	42500	45150	47750	50550	52150	55750	57850	62500	67050	71350	75500	79800	81850	81250	81650	82250	71900
Upper Quartile	33200	35100	38750	41950	44300	46800	48000	51650	52450	56450	59900	62750	65950	70200	71900	70800	71550	71100	61200
Median	31550	33050	35450	37050	38750	40600	42100	45350	46350	50100	53350	55500	57250	60500	61850	61400	61700	60750	51100
Lower Quartile	30300	31250	32800	34050	35050	36350	37550	39500	40900	43450	45700	48050	49000	52800	53350	52850	53050	51800	41350
Lower Decile	28600	29950	30750	31650	32500	33150	33400	35450	36800	38150	39850	41550	42550	45850	45200	45300	45250	45000	34600
Mean	32000	33600	36200	37950	39650	41550	42700	45700	46850	50250	53350	56000	58200	62100	63150	62550	63250	62600	52500
Supporting Data																			
Total Number	803	1073	1113	1455	1550	1497	1442	1599	1553	4555	3318	3183	3064	2426	2272	2019	1867	3701	38497
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	3	13	17	42
Less Than $22000	2	1	1	1	0	0	0	0	0	0	0	1	0	1	1	0	0	0	7

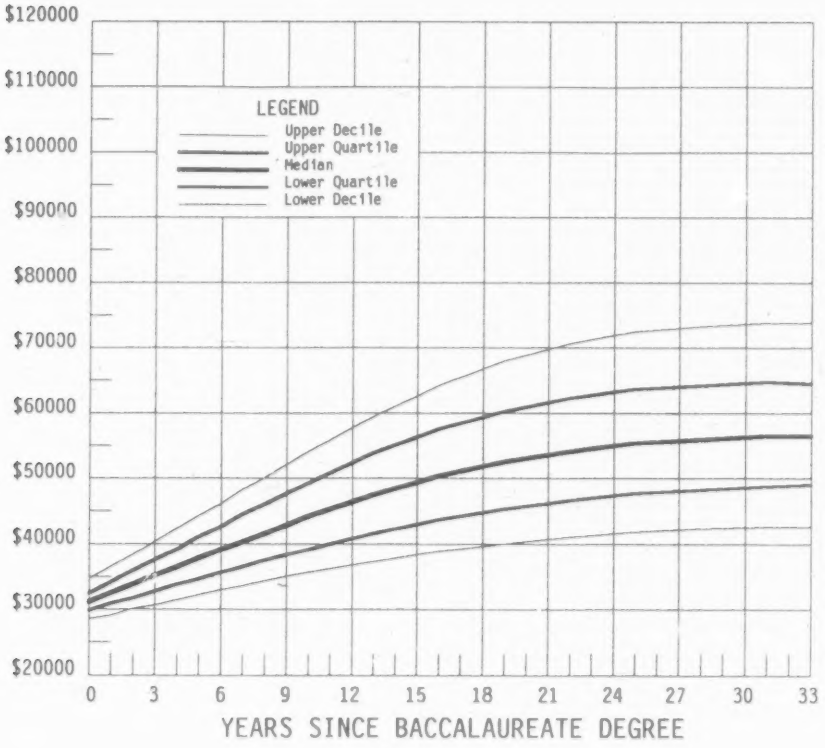
SALARY CURVES FOR ENGINEERS IN MID-ATLANTIC STATES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: MID-ATLANTIC STATES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	51350	53550	55800	58050	60250	64600	70700	76000	80250	83500	85700	87100	87900	88400	77750
Upper Quartile	0	0	0	0	48600	50400	52250	54050	55800	59250	64000	68100	71400	73950	75800	77000	77750	78450	66850
Median	0	0	0	0	46300	47700	49050	50400	51700	54200	57600	60450	62750	64550	65850	66750	67350	68000	57350
Lower Quartile	0	0	0	0	43000	44200	45300	46400	47450	49450	52100	54250	55950	57250	58150	58700	59050	59400	49200
Lower Decile	0	0	0	0	39200	40200	41200	42150	43050	44700	46850	48550	49800	50650	51150	51450	51600	51550	42450
Mean	0	0	0	0	45900	47400	48900	50350	51800	54500	58250	61500	64100	66100	67600	68600	69250	69950	59050
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	49850	53400	55050	58850	61150	66050	70350	75500	79050	84100	84500	85300	87350	90250	77750
Upper Quartile	0	0	0	0	47600	49900	51700	55150	57150	60150	63200	67050	70350	75450	77000	75850	77850	78400	66850
Median	0	0	0	0	45100	47400	48500	51650	52550	55100	57150	59800	61350	65650	66850	66250	66700	68250	57350
Lower Quartile	0	0	0	0	42250	43850	44700	47450	47850	50200	51850	53800	54600	57950	58850	59200	58800	59200	49200
Lower Decile	0	0	0	0	39100	39800	40800	43400	42850	45050	46200	48400	48700	52100	52400	51050	51550	51000	42450
Mean	0	0	0	0	45050	47050	48300	51350	52450	55350	57800	60850	62950	67300	68250	67750	69150	70100	59050
Supporting Data																			
Total Number	96	306	346	507	577	594	574	711	658	2281	1819	1706	1724	1310	1202	962	894	1530	17802
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	1	5	3	13	16	39
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2

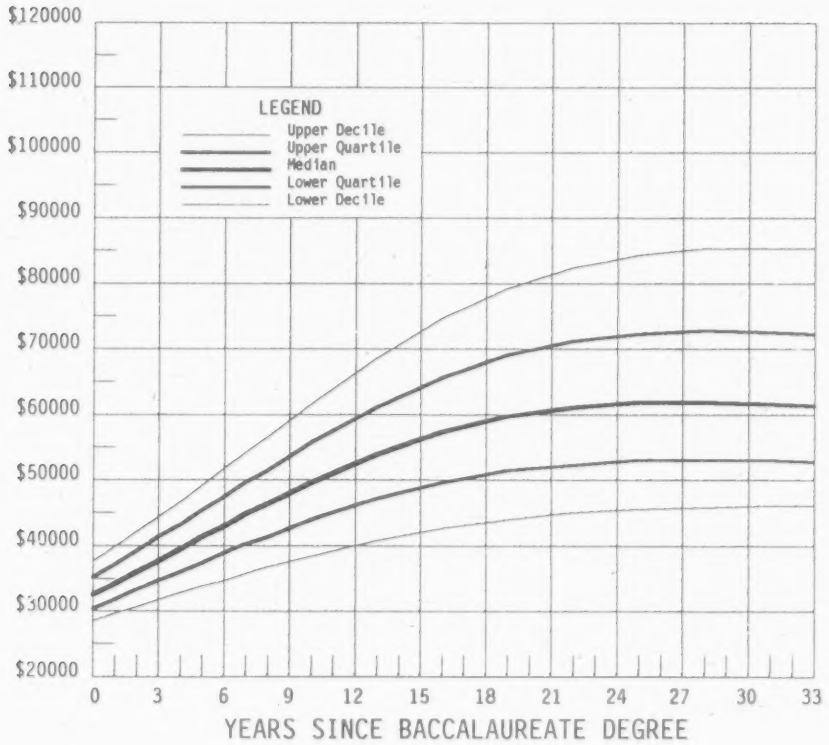
SALARY CURVES FOR ENGINEERS IN MID-ATLANTIC STATES NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: MID-ATLANTIC STATES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34700	36550	38400	40350	42300	44250	46250	48250	50250	54150	59600	64300	68050	70700	72450	73450	73850	73800	63900
Upper Quartile	32600	34250	35900	37600	39250	41000	42700	44400	46050	49300	53800	57500	60400	62450	63750	64400	64700	64500	54650
Median	31150	32450	33750	35100	36450	37800	39100	40400	41700	44150	47500	50300	52550	54200	55350	56050	56450	56700	44750
Lower Quartile	29850	30850	31850	32800	33800	34750	35700	36650	37550	39300	41650	43700	45350	46650	47600	48300	48800	49350	36950
Lower Decile	28450	29200	30000	30750	31500	32250	32950	33650	34350	35650	37350	38850	40050	41000	41750	42300	42650	43150	32500
Mean	31400	32750	34100	35450	36800	38150	39500	40850	42150	44650	48100	51000	53350	55100	56300	57100	57550	57900	46900
Raw (Unsmoothed) Statistics																			
Upper Decile	34950	36450	38750	40150	41150	44250	45750	49150	51000	54900	59750	63000	66800	70250	73850	74500	74250	73300	63900
Upper Quartile	32900	33850	36450	37350	38800	40550	42350	44950	46700	49950	53850	56400	59200	62750	64800	64900	65500	64000	54650
Median	31300	32250	33900	35000	36250	37350	38900	40700	42550	44700	47150	49650	50950	55050	56100	56750	57200	56150	44750
Lower Quartile	30150	30700	31950	32800	33450	34550	34900	36800	38550	39700	41500	43250	44100	48000	48050	49100	48600	48950	36950
Lower Decile	28500	29050	30250	30650	31750	31900	32250	33900	34800	36000	37200	38300	39000	42450	42100	42200	43300	42750	32500
Mean	31650	32600	34400	35300	36450	37900	39000	41150	42700	45100	48000	50350	52100	55850	57450	57800	57850	57300	46900
Supporting Data																			
Total Number	706	770	765	946	974	904	868	888	894	2274	1497	1477	1340	1116	1070	1057	971	2169	20690
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3
Less Than $22000	2	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	5

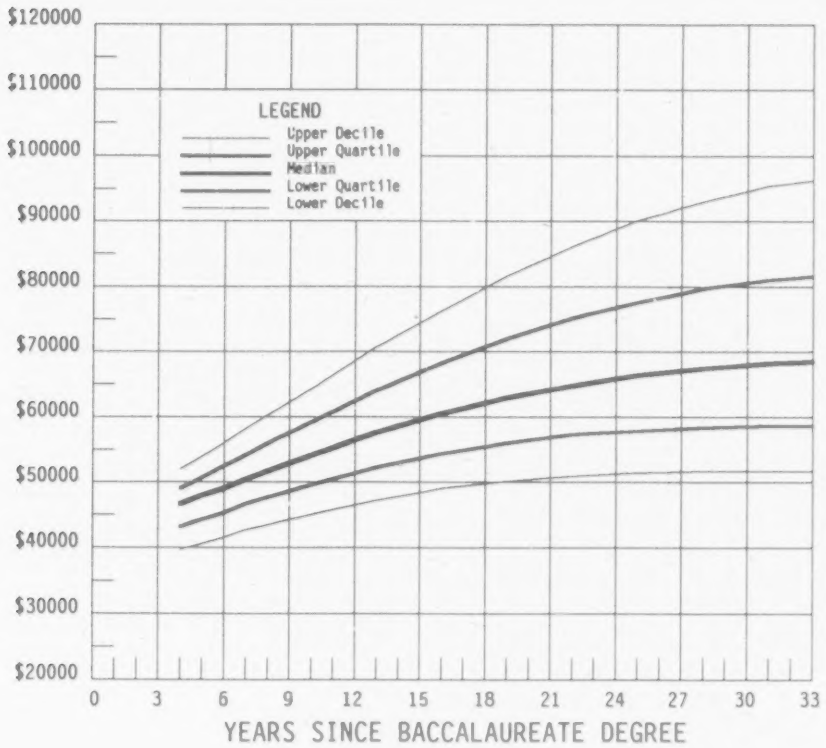
SALARY CURVES FOR ENGINEERS IN EAST NORTH CENTRAL STATES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: EAST NORTH CENTRAL STATES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	37600	39750	42000	44350	46750	49200	51650	54150	56650	61600	68550	74550	79250	82500	84400	85300	85450	84750	71500
Upper Quartile	35250	37150	39150	41200	43250	45350	47450	49550	51600	55650	61150	65650	69000	71150	72300	72700	72600	71650	60100
Median	32600	34250	36000	37700	39450	41200	42950	44700	46400	49600	53850	57250	59650	61050	61750	61850	61600	60700	50500
Lower Quartile	30450	31850	33250	34650	36050	37450	38850	40150	41450	43900	47100	49600	51350	52400	52950	53050	52950	52350	41200
Lower Decile	28500	29550	30600	31700	32750	33750	34800	35750	36700	38500	40850	42700	44100	45050	45650	45950	46100	46050	34650
Mean	32850	34500	36200	37900	39650	41400	43150	44900	46600	49900	54400	58150	61000	62950	64100	64700	64850	64500	52300
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	35600	38700	42200	45300	47700	50000	52500	55650	58050	62550	67700	71950	76150	81350	83850	84950	87600	88850	71500
Upper Quartile	33550	35600	39100	42450	44300	46350	48300	51600	52800	56300	59950	63300	66100	71100	72500	72800	74050	74350	60100
Median	32200	33600	35550	38200	39550	41200	43300	46050	46850	50300	53850	56000	57750	60300	61900	62200	62750	61750	50500
Lower Quartile	30650	31650	32700	34700	36200	37300	38600	41400	41800	43950	47650	48350	50550	52400	53650	54150	54200	51450	41200
Lower Decile	28850	29200	30400	31550	32250	33800	34750	37450	36650	38500	41250	41800	43300	45150	45800	47250	47550	45100	34650
Mean	32150	33800	36000	38550	39850	41650	43350	46350	47150	50450	54250	56700	59100	62600	64450	65000	65900	65650	52300
---------- Supporting Data ----------																			
Total Number	1001	1269	1174	1343	1685	1784	1552	1741	1740	5110	3712	3592	3097	2388	2129	1721	1393	2107	38542
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	4	13	21	23	20	15	45	141
Less Than $22000	12	30	11	0	8	0	0	1	0	2	0	0	0	0	0	0	0	0	65

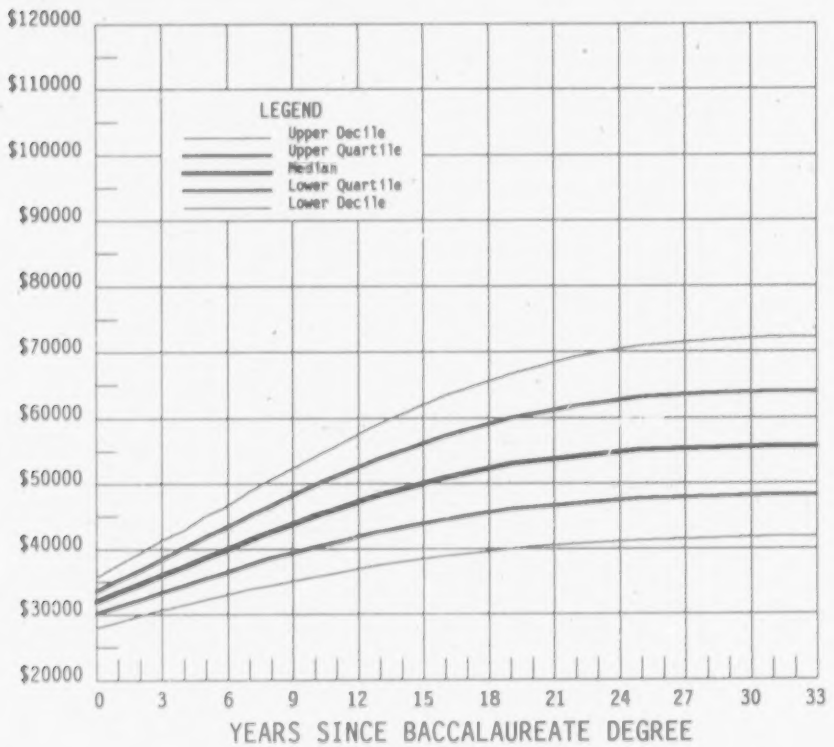
SALARY CURVES FOR ENGINEERS IN EAST NORTH CENTRAL STATES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: EAST NORTH CENTRAL STATES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	51900	53950	56000	58100	60200	64400	70600	76400	81650	86250	90050	93100	95450	98750	78500
Upper Quartile	0	0	0	0	49050	50800	52500	54200	55900	59250	63950	68250	72050	75200	77700	79700	81150	83100	66650
Median	0	0	0	0	46550	47900	49200	50500	51800	54250	57600	60500	62950	64900	66450	67550	68350	69400	57050
Lower Quartile	0	0	0	0	43100	44300	45450	46600	47700	49700	52350	54500	56100	57250	58000	58450	58700	58800	49500
Lower Decile	0	0	0	0	39650	40650	41650	42600	43500	45200	47300	49000	50200	51000	51500	51750	51850	51800	42650
Mean	0	0	0	0	46200	47650	49100	50500	51900	54650	58550	62000	65050	67600	69650	71250	72450	74100	59650
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	49900	53350	55450	58850	60950	66100	71100	75650	79300	85450	89200	91650	96400	102250	78500
Upper Quartile	0	0	0	0	47800	50200	52050	55100	57000	60250	63600	67300	71050	75950	77250	79800	82400	83000	66650
Median	0	0	0	0	45000	47650	48550	51600	52550	55200	57450	60000	61600	65350	66400	66650	69450	69900	57050
Lower Quartile	0	0	0	0	42000	44250	44700	47350	48150	50500	52350	54150	55250	56900	57650	58450	61650	58050	49500
Lower Decile	0	0	0	0	39000	40800	40800	43900	43700	45350	47400	48350	49700	51550	51350	51900	54700	50300	42650
Mean	0	0	0	0	45000	47350	48450	51550	52500	55500	58400	61500	63900	67950	69450	70700	74100	74100	59650
Supporting Data																			
Total Number	102	325	342	543	578	605	583	776	764	2573	2151	2109	1868	1423	1268	983	732	1069	18800
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	4	13	21	21	20	15	45	139
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

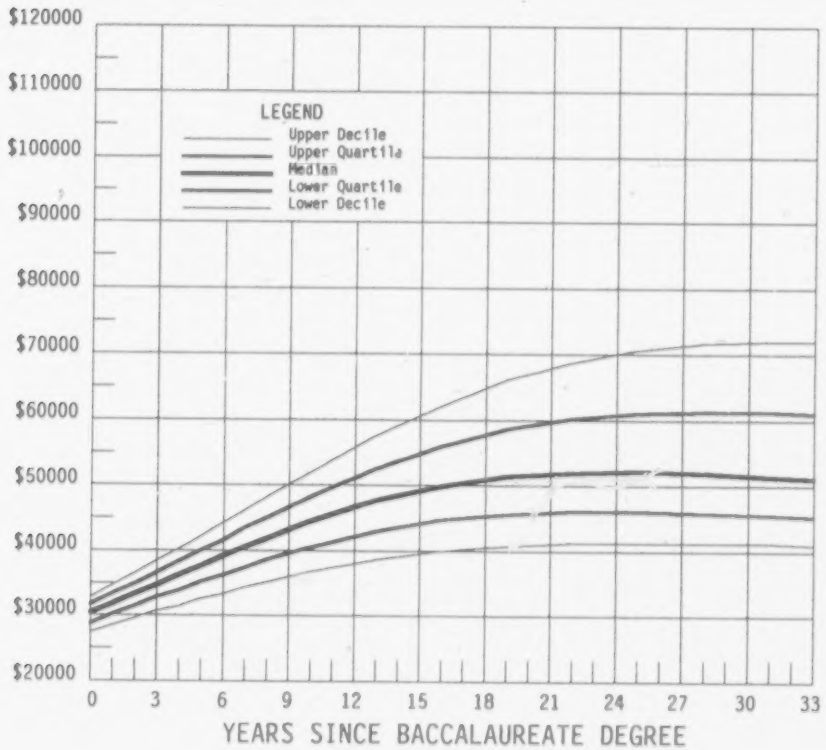
SALARY CURVES FOR ENGINEERS IN EAST NORTH CENTRAL STATES NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: EAST NORTH CENTRAL STATES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	35750	37550	39350	41200	43050	44950	46800	48700	50550	54150	59150	63450	66800	69250	70850	71750	72200	72250	60800
Upper Quartile	33650	35250	36850	38500	40150	41800	43460	45100	46700	49750	53950	57450	60100	62000	63150	63750	64000	63850	52100
Median	31900	33250	34600	36000	37350	38750	40100	41400	42700	45100	48350	50950	52950	54250	55100	55500	55650	55450	43600
Lower Quartile	30200	31300	32350	33450	34500	35550	36600	37550	38550	40350	42700	44600	46050	47050	47700	48100	48250	48300	36750
Lower Decile	28050	28900	29750	30600	31450	32250	33000	33800	34500	35850	37600	39000	40100	40850	41350	41650	41850	41950	32200
Mean	31750	33100	34450	35850	37200	38600	39950	41250	42550	45050	48400	51200	53300	54850	55850	56450	56700	56800	45300
Raw (Unsmoothed) Statistics																			
Upper Decile	35250	37050	39400	41100	43650	45150	47850	49500	51100	54350	58800	61850	64200	69450	72600	71600	72300	73700	60800
Upper Quartile	33450	35050	36700	38200	40150	42050	44300	46100	46900	50000	53850	56000	58200	62450	64150	64800	63250	64650	52100
Median	32000	33000	34200	35700	37400	38800	40400	42400	43350	45250	48550	49400	51650	53950	56600	57150	55800	55150	43600
Lower Quartile	30550	30900	31750	32950	34350	36100	36650	38900	39100	40400	42900	43150	44900	46900	48050	50000	49900	47500	36750
Lower Decile	28600	28300	29750	30250	30650	32600	32900	35150	34350	36300	38200	37700	39050	40300	42100	42600	43100	41500	32200
Mean	31850	32800	34150	35650	37100	38750	40300	42250	42950	45300	48500	49850	51850	54800	57200	57350	56950	56800	45300
Supporting Data																			
Total Number	896	944	831	799	1106	1179	969	965	973	2537	1562	1485	1228	966	864	745	660	1034	19743
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
Less Than $22000	12	30	11	0	8	0	0	1	0	2	0	0	0	0	0	0	0	0	65

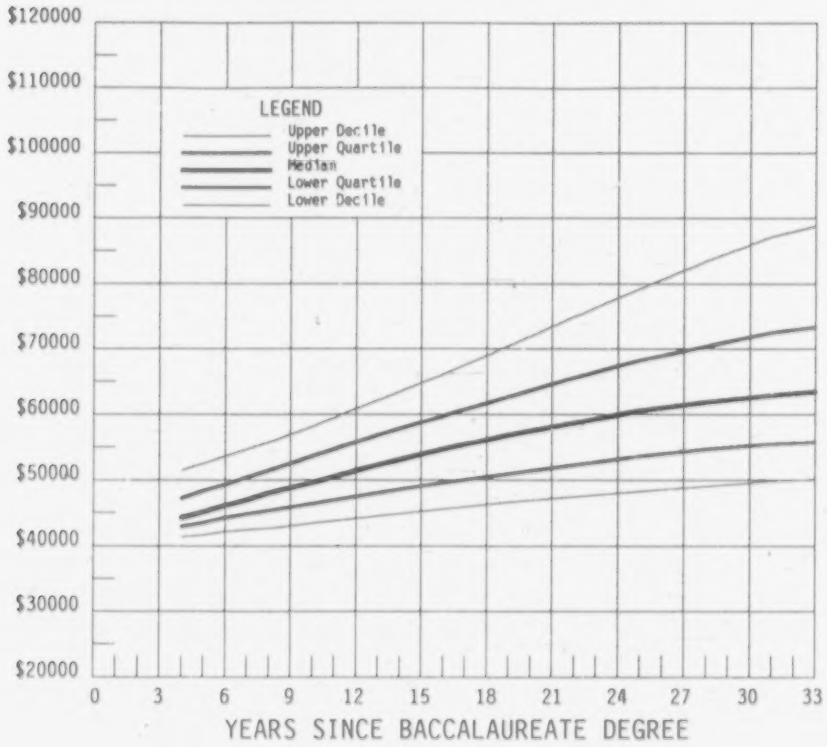
SALARY CURVES FOR ENGINEERS IN WEST NORTH CENTRAL STATES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: WEST NORTH CENTRAL STATES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	32850	34650	36450	38350	40250	42200	44200	46150	48150	52000	57500	62250	66050	68850	70650	71650	72100	72100	59550
Upper Quartile	31650	33300	34950	36600	38300	40000	41700	43400	45050	48250	52550	56000	58550	60200	61100	61400	61350	60700	51100
Median	30300	31750	33250	34750	36250	37700	39150	40550	41900	44450	47650	49950	51400	52100	52200	51950	51500	50350	44150
Lower Quartile	28900	30150	31400	32700	33950	35150	36350	37450	38550	40550	43000	44700	45700	46150	46200	45900	45500	44600	38150
Lower Decile	27500	28550	29550	30600	31550	32550	33450	34350	35200	36750	38650	40000	40900	41350	41450	41400	41200	40650	32850
Mean	30300	31750	33200	34650	36100	37600	39050	40500	41900	44550	48100	50950	53050	54400	55150	55400	55400	54950	45600
Raw (Unsmoothed) Statistics																			
Upper Decile	31850	33950	35100	39200	40900	42650	44250	48200	46650	53000	57550	63350	62550	65750	63450	72500	66100	80900	59550
Upper Quartile	31250	33000	33550	36650	39200	40250	40650	44950	44600	49600	51900	55200	56900	60900	57550	62250	55900	64550	51100
Median	30200	31550	32250	34950	36550	38100	38700	41250	40700	45300	47150	49600	50800	53000	51100	51500	48450	51600	44150
Lower Quartile	28100	30250	30900	33200	33400	36200	35600	37500	38650	41500	42200	44650	44300	47850	46800	43500	44800	45500	38150
Lower Decile	26800	27450	30050	30900	32200	34100	32300	34750	32600	38600	36900	39750	39500	42650	43150	41050	40350	40650	32850
Mean	29800	31300	32450	34900	36600	38150	38250	41250	41100	45750	47350	51100	51350	54650	52800	54900	52650	57550	45600
Supporting Data																			
Total Number	101	142	96	179	174	189	130	197	119	615	490	347	322	186	131	163	109	203	3897
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	3	7
Less Than $22000	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3

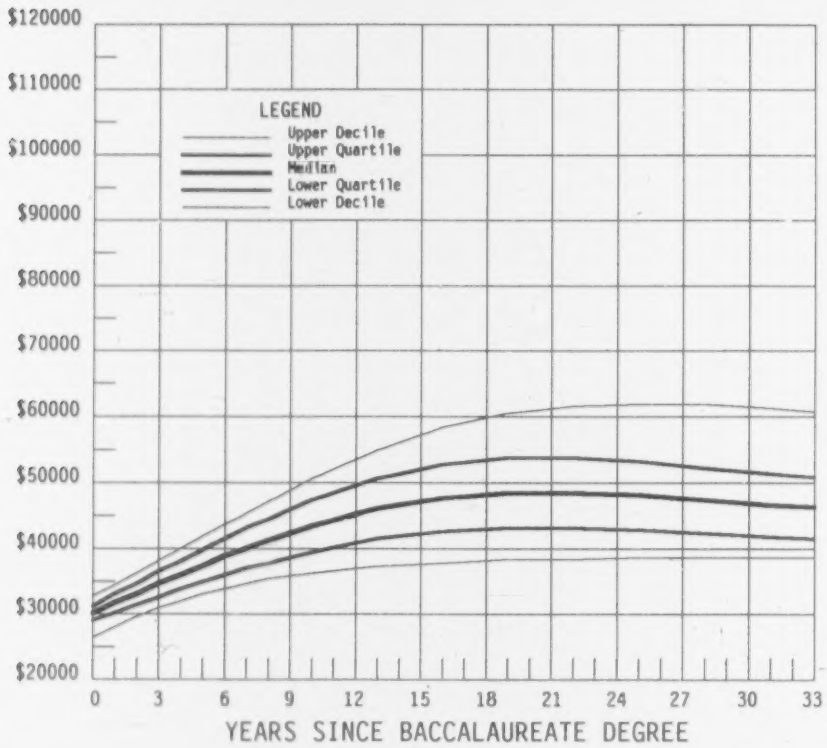
SALARY CURVES FOR ENGINEERS IN WEST NORTH CENTRAL STATES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: WEST NORTH CENTRAL STATES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	51400	52450	53550	54700	55850	58250	62100	66200	70500	74850	79200	83350	87150	94000	71900
Upper Quartile	0	0	0	0	47250	48300	49350	50400	51450	53550	56700	59800	62750	65550	68150	70500	72450	75750	62150
Median	0	0	0	0	44150	45100	46050	46950	47900	49700	52250	54650	56850	58800	60450	61850	63050	64850	54700
Lower Quartile	0	0	0	0	43000	43600	44150	44750	45300	46450	48100	49600	51050	52350	53550	54550	55400	56750	49300
Lower Decile	0	0	0	0	41350	41700	42050	42400	42750	43450	44550	45550	46550	47500	48350	49100	49750	50850	44300
Mean	0	0	0	0	45100	45950	46800	47700	48550	50300	53000	55650	58300	60800	63200	65350	67250	70450	57650
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	49100	43650	0	54900	0	60100	62850	69750	70250	68400	75200	74500	84500	101000	71900
Upper Quartile	0	0	0	0	43250	43100	0	53300	0	54000	58550	62450	62450	62200	63350	64450	66500	80850	62150
Median	0	0	0	0	40150	42150	0	46650	0	51000	53850	55150	56200	58000	55500	61250	56000	66300	54700
Lower Quartile	0	0	0	0	39100	41250	0	45150	0	47850	47550	50550	51050	52600	49850	53150	48400	58000	49300
Lower Decile	0	0	0	0	38450	38300	0	44250	0	44200	45250	44600	48000	48800	47550	42900	47200	51900	44900
Mean	0	0	0	0	41800	41750	0	48500	0	51300	53900	57200	58000	59450	57950	61750	61850	73100	57650
Supporting Data																			
Total Number	0	0	0	0	13	11	4	18	8	127	89	124	126	76	46	69	42	78	837
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	3	7
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

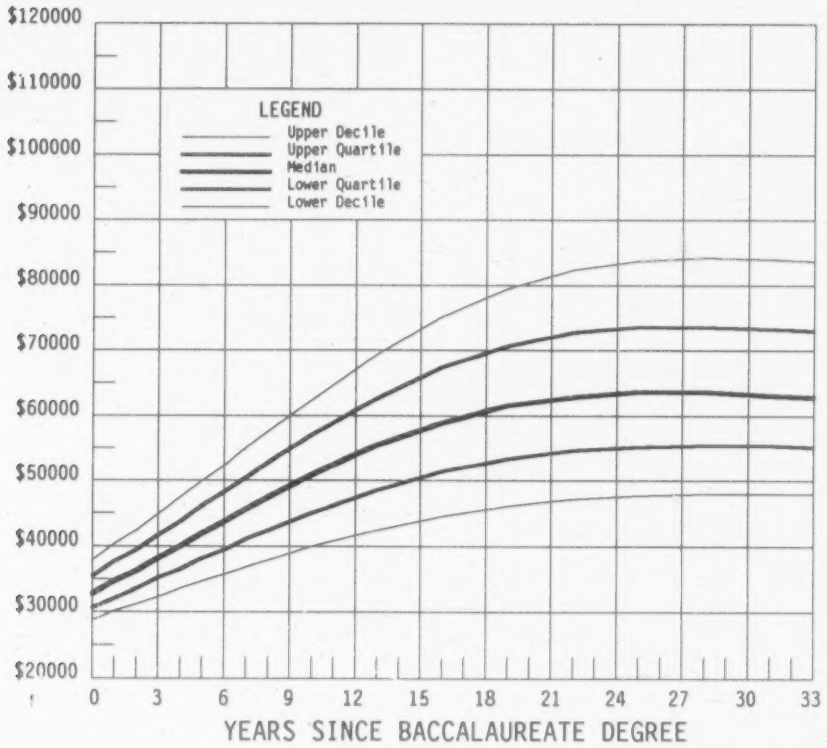
SALARY CURVES FOR ENGINEERS IN WEST NORTH CENTRAL STATES
NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: WEST NORTH CENTRAL STATES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	32700	34450	36250	38100	39950	41800	43650	45450	47200	50600	54950	58300	60500	61650	62000	61750	61200	59800	52650
Upper Quartile	31300	33000	34700	36400	38100	39800	41500	43100	44600	47400	50700	52850	53800	53850	53300	52400	51350	49350	47700
Median	30250	31700	33150	34600	36050	37450	38800	40100	41350	43550	46150	47800	48550	48600	48200	47500	46750	45200	41400
Lower Quartile	29050	30250	31450	32650	33800	34900	35950	37000	37900	39600	41500	42700	43250	43250	42950	42450	41900	40750	36150
Lower Decile	26450	28050	29500	30850	32000	33000	33900	34700	35350	36350	37400	37950	38300	38500	38550	38600	38600	38600	32000
Mean	30050	31550	33000	34460	35900	37350	38750	40050	41350	43650	46400	48250	49200	49400	49100	48500	47800	46350	42350
Raw (Unsmoothed) Statistics																			
Upper Decile	31850	33950	35100	39200	40650	42050	44100	47350	46050	51000	54600	55800	57000	65350	61150	71400	56300	62450	52650
Upper Quartile	31250	33000	33550	36650	38750	40000	40500	43850	44150	47900	50450	51700	52550	57150	52950	52950	49650	51600	47700
Median	30200	31550	32250	34950	36200	37950	38600	40700	40550	43800	46000	47750	46450	50300	49650	48050	46400	46650	41400
Lower Quartile	28100	30250	30900	33200	33250	36150	35450	37100	38600	40750	41050	41050	40650	44250	45300	42150	41900	43300	36150
Lower Decile	26800	27450	30050	30900	32150	33950	32150	34550	32100	38200	35900	39100	38600	41500	42350	39650	39450	33950	32000
Mean	29800	31300	32450	34900	36200	37950	38050	40500	40450	44300	45900	47800	47000	51400	50100	50050	47050	47900	42350
Supporting Data																			
Total Number	101	142	96	179	162	178	126	178	111	487	400	225	195	112	85	93	67	127	3060
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3

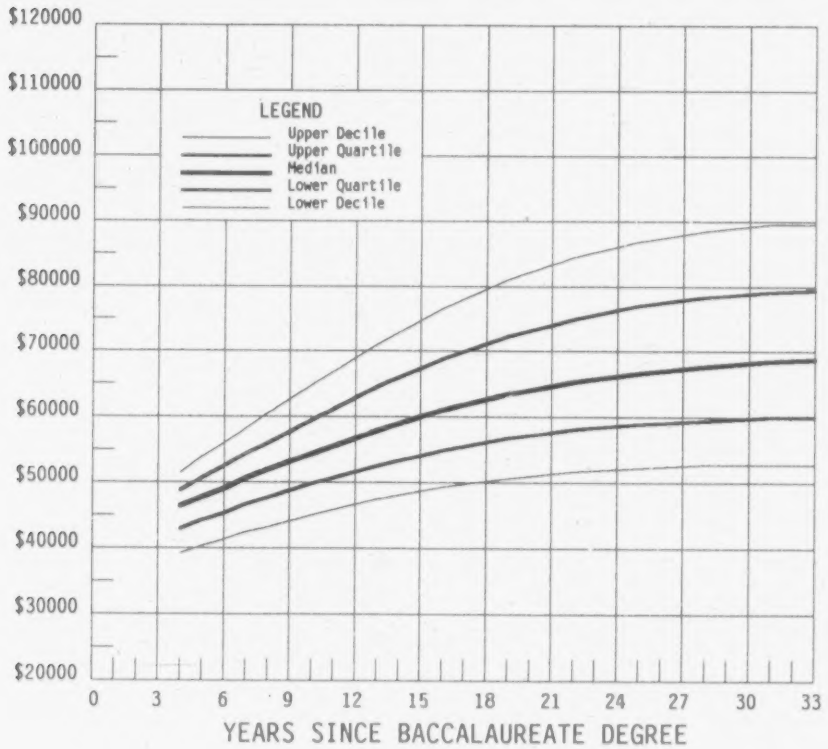
SALARY CURVES FOR ENGINEERS IN SOUTH ATLANTIC STATES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: SOUTH ATLANTIC STATES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	37950	40200	42500	44900	47400	49900	52400	54950	57500	62500	69450	75250	79550	82350	83750	84150	83950	82600	73350
Upper Quartile	35450	37500	39550	41700	43850	46100	48300	50500	52700	56950	62700	67350	70650	72700	73600	73700	73350	71950	62450
Median	32800	34550	36350	38200	40050	41900	43750	45600	47400	50850	55450	59050	61550	63000	63650	63650	63300	62150	52550
Lower Quartile	30650	32100	33600	35100	36550	38050	39500	40950	42400	45050	48550	51350	53350	54600	55250	55450	55350	54750	42850
Lower Decile	28900	30050	31200	32350	33500	34650	35750	36850	37900	39900	42500	44550	46100	47100	47700	48000	48100	47950	35800
Mean	33300	35000	36800	38600	40400	42250	44100	45900	47700	51150	55800	59600	62350	64150	65100	65400	65300	64550	53900
Raw (Unsmoothed) Statistics																			
Upper Decile	36250	39000	42600	45350	48350	50800	52250	55800	59000	63700	67950	73500	77650	80700	83800	83050	85850	84200	73350
Upper Quartile	33750	35700	39450	42550	44950	47500	48150	51900	54150	57800	61300	64950	68750	71550	73650	73500	75500	73050	62450
Median	32300	33700	35950	38300	40250	42600	43400	46350	48750	51950	54900	57850	59400	61900	63550	63800	64300	63000	52550
Lower Quartile	30700	32200	33300	35000	36400	37900	38900	41500	42750	45850	48400	51000	52100	54000	55700	55850	56200	54550	42850
Lower Decile	28850	30350	31150	32350	33350	34450	35200	36850	38200	40450	42300	44750	45200	46550	47950	48650	49150	47400	35800
Mean	32650	34300	36650	38800	40750	42700	43650	46500	48600	52100	55150	58650	60800	63250	65400	65200	66550	65000	53900
Supporting Data																			
Total Number	567	902	969	1206	1395	1431	1401	1551	1336	4173	3030	2589	2451	1998	1976	1595	1373	2697	32649
$125,000 or More	0	0	0	0	0	0	0	0	0	1	0	4	5	11	13	2	3	15	53
Less Than $22000	2	0	2	2	1	0	0	0	1	0	0	0	0	1	1	0	0	0	10

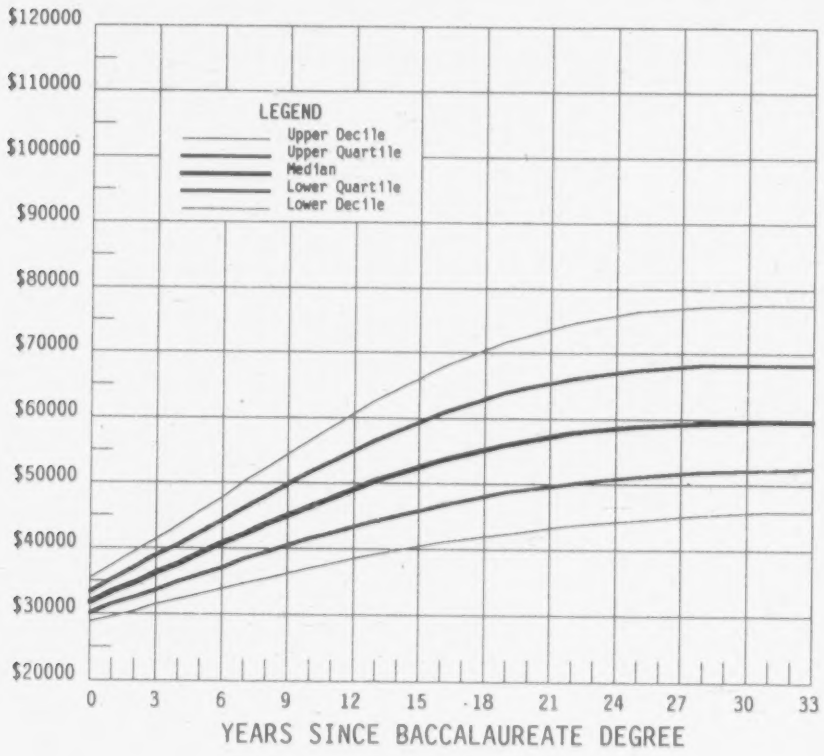
SALARY CURVES FOR ENGINEERS IN SOUTH ATLANTIC STATES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: SOUTH ATLANTIC STATES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	51550	53800	56050	58250	60500	64900	71050	76500	81000	84450	86900	88550	89500	90350	77700
Upper Quartile	0	0	0	0	48850	50700	52500	54350	56100	59600	64450	68700	72200	74950	76950	78350	79250	80200	66700
Median	0	0	0	0	46400	47800	49200	50550	51900	54450	57950	60950	63400	65350	66800	67850	68550	69350	57250
Lower Quartile	0	0	0	0	42950	44200	45400	46550	47700	49850	52650	54950	56800	58100	59050	59600	59950	60250	49150
Lower Decile	0	0	0	0	39250	40300	41350	42350	43300	45100	47450	49300	50700	51700	52300	52700	52850	52900	42150
Mean	0	0	0	0	45950	47500	49050	50550	52000	54850	58800	62150	64950	67100	68700	69850	70600	71400	59000
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	50250	53650	55050	58700	61800	66500	70500	75300	79750	83650	87800	87700	91600	90200	77700
Upper Quartile	0	0	0	0	47900	50100	51700	55000	57600	60850	63750	67400	71500	75150	77550	77850	81300	79450	66700
Median	0	0	0	0	45100	47700	48150	51400	52900	55600	57700	60300	62050	65150	67100	67400	70150	69200	57250
Lower Quartile	0	0	0	0	42000	44250	44050	47150	48350	50850	52650	54700	55300	57900	58900	59500	61250	60200	49150
Lower Decile	0	0	0	0	38700	40800	40250	43050	43400	45500	47300	49400	49700	51800	52850	52550	53800	52250	42150
Mean	0	0	0	0	45150	47350	47900	51050	52900	55950	58400	61500	63800	67100	69300	69200	71950	71100	59000
Supporting Data																			
Total Number	97	301	339	503	572	560	555	749	665	2268	1822	1588	1509	1161	1095	820	668	1105	16385
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	2	5	11	13	1	3	13	48
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2

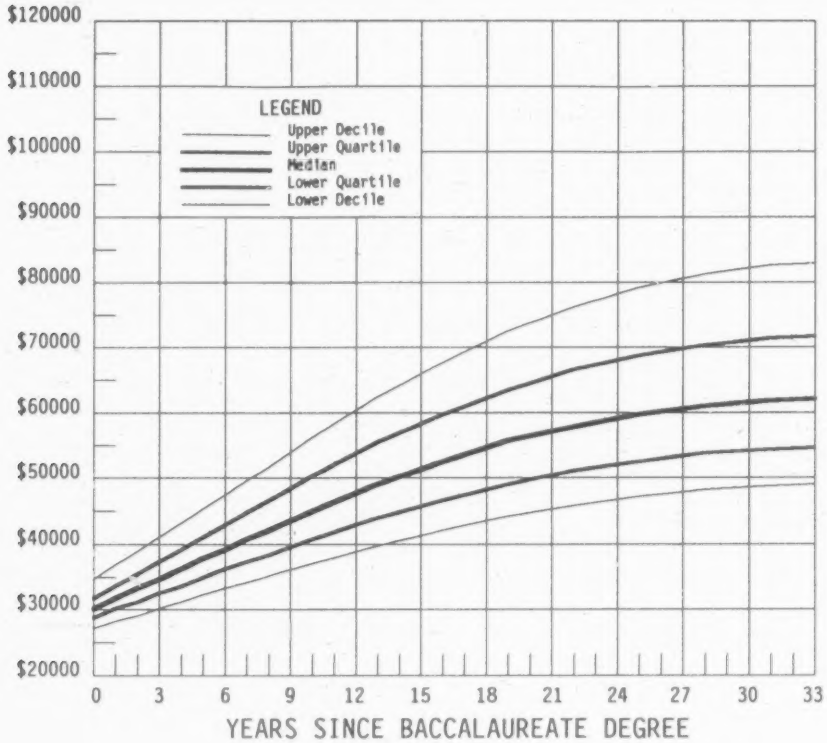
SALARY CURVES FOR ENGINEERS IN SOUTH ATLANTIC STATES
NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: SOUTH ATLANTIC STATES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	35400	37350	39350	41400	43550	45700	47850	50050	52250	56550	62550	67750	71800	74700	76500	77400	77700	77350	67100
Upper Quartile	33450	35150	36950	38800	40600	42500	44350	46200	48050	51650	56600	60750	63950	66150	67500	68150	68350	68000	56850
Median	31750	33200	34700	36200	37700	39250	40750	42250	43700	46500	50350	53550	56000	57800	58900	59550	59850	59800	46700
Lower Quartile	30150	31350	32500	33700	34850	36000	37150	38300	39350	41500	44350	46750	48700	50150	51200	51900	52350	52750	38200
Lower Decile	28700	29600	30500	31350	32200	33050	33900	34700	35500	37050	39150	40950	42450	43650	44550	45250	45750	46400	33400
Mean	31900	33350	34850	36400	37900	39450	40950	42450	43950	46800	50750	54100	56750	58650	59950	60700	61100	61250	48750
Raw (Unsmoothed) Statistics																			
Upper Decile	35700	37250	39250	40900	43500	46650	47400	49550	52750	56600	62300	68150	72250	74050	76850	76650	77750	76900	67100
Upper Quartile	33600	35000	36800	38200	40350	43150	44550	46050	49100	52250	56000	59900	63100	65750	68100	67950	68350	67850	56850
Median	31900	33100	34450	35850	37450	39600	40600	42500	44600	47350	49700	52500	54750	57000	59850	60200	59950	59500	46700
Lower Quartile	30450	31400	32400	33400	34650	35900	37100	38200	39550	42200	43850	46450	47900	49600	52000	52900	53150	51850	38200
Lower Decile	28550	29650	30350	30950	32300	33200	34100	34750	35950	37350	38850	41500	41500	42050	44200	46200	47050	46000	33400
Mean	32200	33400	34600	36000	37700	39700	40850	42250	44400	47450	50300	54100	56000	57900	60500	60950	61400	60800	48750
Supporting Data																			
Total Number	469	604	628	706	823	871	846	803	670	1902	1209	1002	940	833	882	773	701	1590	16264
$125,000 or More	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	1	0	2	5
Less Than $22000	2	0	2	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	8

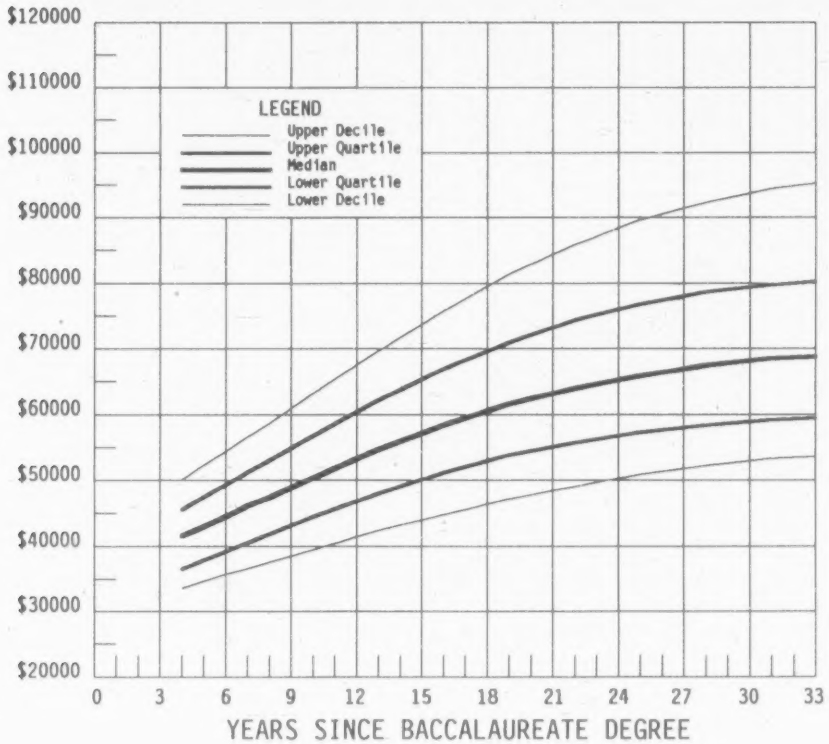
SALARY CURVES FOR ENGINEERS IN EAST SOUTH CENTRAL STATES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: EAST SOUTH CENTRAL STATES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34650	36700	38800	40950	43100	45300	47500	49700	51850	56150	62300	67800	72500	76300	79250	81350	82700	84050	70750
Upper Quartile	31800	33600	35450	37300	39200	41100	43000	44850	46750	50350	55400	59850	63600	66600	68850	70450	71500	72500	59750
Median	30250	31700	33250	34750	36250	37800	39300	40800	42250	45150	49100	52650	55650	58000	59850	61150	62000	62800	49300
Lower Quartile	28800	30050	31250	32500	33700	34900	36150	37300	38500	40750	43950	46750	49150	51100	52600	53750	54500	55300	39150
Lower Decile	27150	28200	29200	30200	31200	32200	33250	34200	35200	37100	39800	42200	44300	46000	47300	48200	48850	49450	32850
Mean	30550	32050	33600	35150	36750	38300	39850	41450	43000	46000	50300	54100	57400	60050	62100	63600	64550	65500	51000
Raw (Unsmoothed) Statistics																			
Upper Decile	35400	37050	38850	38800	42800	45400	46400	50100	52450	57100	61550	68700	73350	76300	77900	80200	84500	82950	70750
Upper Quartile	32350	33800	35450	36150	38800	41000	41900	45450	47350	51100	55150	59950	63850	66300	68800	69150	73550	71250	59750
Median	31050	32000	32750	34000	35700	37400	38550	40750	43050	45450	49750	52550	55550	58750	60650	60500	61450	60950	49300
Lower Quartile	29950	29900	30700	32000	33300	34750	35300	37050	39200	41150	44550	46600	48150	51950	53850	53000	55400	53050	39150
Lower Decile	28700	28200	28300	29700	30800	31050	32450	33750	36500	37900	40500	42050	43100	47400	48000	47950	48700	47450	32850
Mean	31600	32150	33150	34150	36400	37950	38900	41250	43850	46700	50500	54350	57200	60350	62250	62850	65700	63650	51000
Supporting Data																			
Total Number	287	372	354	320	320	371	338	334	374	1030	737	908	706	751	999	543	445	797	9994
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	5	7	20
Less Than $22000	1	1	2	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	7

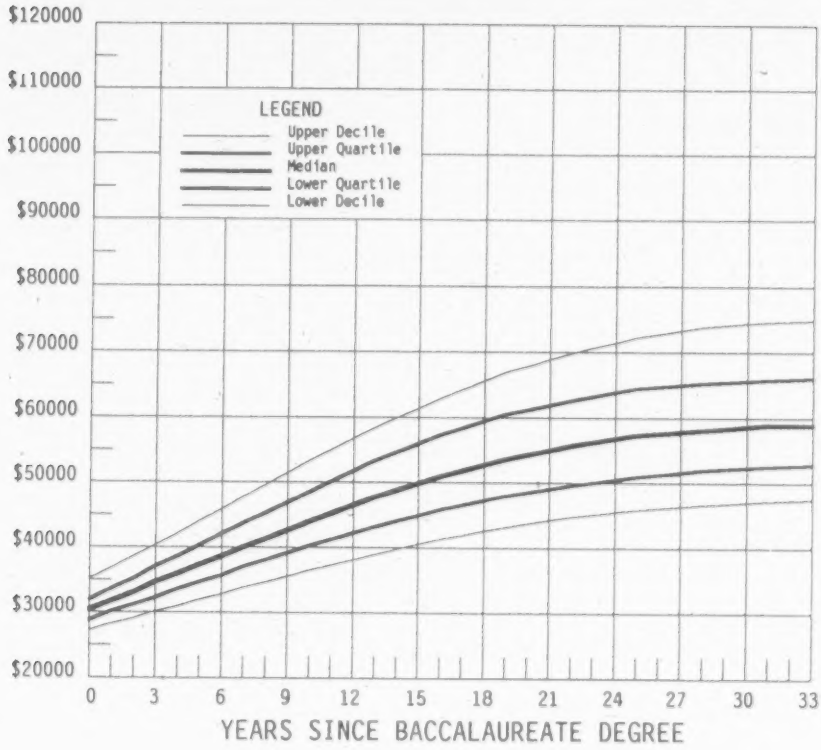
SALARY CURVES FOR ENGINEERS IN EAST SOUTH CENTRAL STATES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: EAST SOUTH CENTRAL STATES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	50000	52150	54350	56550	58750	63200	69700	75800	81200	85800	89550	92400	94450	97200	83900
Upper Quartile	0	0	0	0	45650	47500	49400	51300	53150	56900	62200	66950	71000	74300	76850	78650	79850	81300	71950
Median	0	0	0	0	41500	43000	44550	46050	47550	50500	54650	58350	61500	64000	65950	67400	68400	69600	61000
Lower Quartile	0	0	0	0	36600	37950	39300	40600	41900	44450	48000	51150	53750	55850	57400	58500	59250	60050	51850
Lower Decile	0	0	0	0	33600	34650	35650	36600	37600	39550	42300	44900	47200	49200	50900	52300	53350	54750	44200
Mean	0	0	0	0	41950	43500	45100	46650	48250	51350	55800	59850	63400	66400	68750	70600	71950	73700	63350
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	59000	49400	50150	52400	60800	63650	70750	79500	82650	84250	84050	93350	98400	96950	83900
Upper Quartile	0	0	0	0	54900	45500	44750	49500	54250	56900	63100	69400	71900	73700	74000	76350	82550	80750	71950
Median	0	0	0	0	47500	42100	41450	45000	46650	50500	56400	59550	61750	62950	65750	64000	68200	69550	61000
Lower Quartile	0	0	0	0	40250	35800	38250	39500	42350	44100	50050	52200	52200	55550	58000	55750	58700	59500	51850
Lower Decile	0	0	0	0	36500	34250	36550	34600	38300	38950	42650	45450	46650	49200	51700	50150	55000	52300	44200
Mean	0	0	0	0	48500	41550	42200	44350	48900	51550	57050	61500	63700	65800	66950	68250	74000	73100	63350
Supporting Data																			
Total Number	3	4	9	3	15	26	39	44	54	204	182	277	271	297	462	200	179	249	2527
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	5	7	20
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

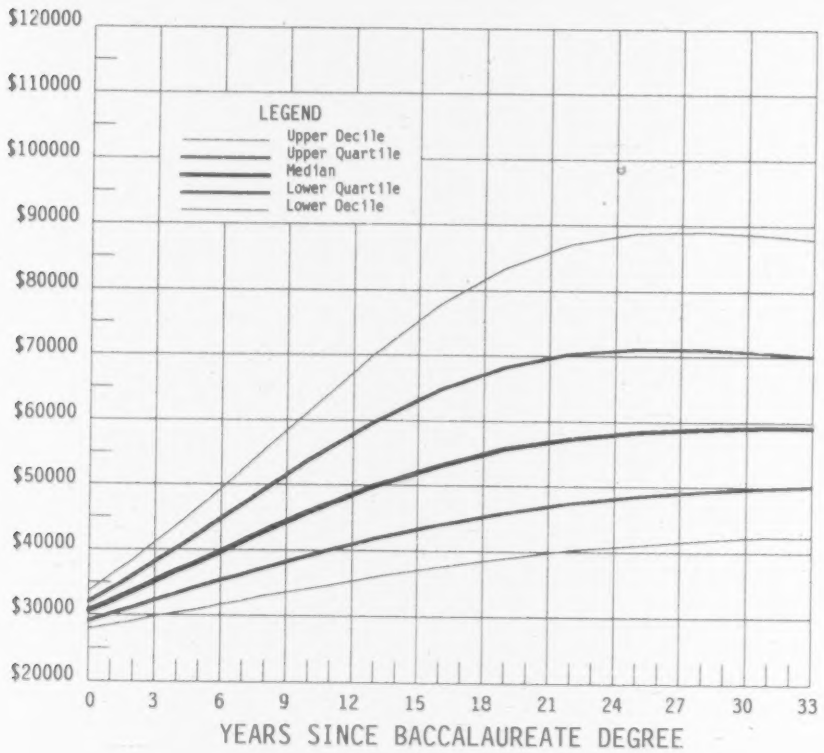
SALARY CURVES FOR ENGINEERS IN EAST SOUTH CENTRAL STATES NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: EAST SOUTH CENTRAL STATES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	35100	36800	38550	40300	42150	44000	45850	47700	49550	53200	58400	63050	66900	69950	72200	73750	74700	75650	63500
Upper Quartile	32100	33650	35300	36950	38600	40300	42000	43700	45350	48650	53250	57200	60450	62800	64450	65450	66000	66250	55150
Median	30450	31800	33150	34550	35900	37300	38700	40100	41450	44100	47800	51050	53700	55750	57200	58250	58850	59500	45600
Lower Quartile	28900	30050	31200	32400	33550	34700	35850	37000	38100	40250	43200	45750	47900	49650	51000	51950	52550	53150	36750
Lower Decile	27300	28200	29150	30050	31000	31900	32850	33750	34700	36450	39000	41250	43200	44750	45900	46750	47300	47750	31800
Mean	30700	32050	33450	34850	36250	37650	39100	40500	41900	44600	48400	51700	54450	56600	58100	59150	59850	60500	46850
Raw (Unsmoothed) Statistics																			
Upper Decile	35350	36900	38550	38800	41000	44900	46000	48950	50200	54500	57150	62400	65800	69450	71550	74500	76050	75000	63500
Upper Quartile	32200	33750	35350	36100	38100	40600	41000	44300	46650	49700	52650	56750	59300	62850	63400	66150	66750	65800	55150
Median	31000	31950	32700	33950	35450	37250	38200	40250	42500	44600	48150	50200	52550	56700	57400	58500	58750	58450	45600
Lower Quartile	29950	29850	30650	31950	33150	34650	34950	36950	38900	40850	43950	45450	46450	50450	51500	52100	52600	51550	36750
Lower Decile	28700	28200	28250	29650	30550	30800	32050	33200	36250	37550	39500	41350	41600	45450	46700	47250	46150	46000	31800
Mean	31550	32050	32950	34100	35650	37650	38450	40600	43000	45500	48350	51250	53200	57000	58100	59700	60200	59400	46850
Supporting Data																			
Total Number	284	368	346	317	301	344	298	287	319	825	557	632	433	457	535	343	268	546	7468
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	1	1	2	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	7

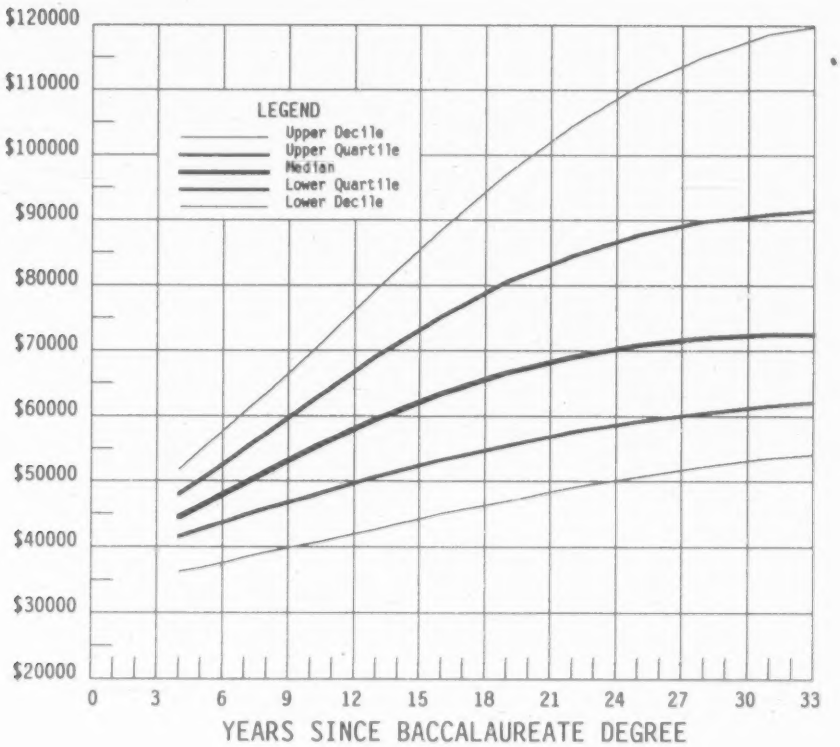
SALARY CURVES FOR ENGINEERS IN WEST SOUTH CENTRAL STATES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: WEST SOUTH CENTRAL STATES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33700	36000	38450	41050	43700	46500	49400	52350	55350	61400	70150	77750	83500	87150	88850	89100	88500	86100	69750
Upper Quartile	31950	33950	36000	38100	40300	42500	44750	47050	49300	53750	59850	64800	68300	70400	71200	71150	70600	68800	56750
Median	30600	32100	33600	35150	36700	38250	39800	41350	42850	45750	49750	53050	55600	57350	58450	59050	59250	59050	44200
Lower Quartile	29150	30200	31250	32300	33300	34350	35350	36350	37350	39250	41850	44050	45950	47400	48500	49300	49850	50550	36000
Lower Decile	28000	28600	29200	29800	30450	31050	31700	32300	32950	34150	35900	37550	38950	40200	41150	41900	42400	42900	31600
Mean	30650	32200	33800	35450	37100	38800	40450	42150	43850	47100	51650	55550	58650	60900	62400	63200	63600	63650	48500
Raw (Unsmoothed) Statistics																			
Upper Decile	35000	36800	38750	39950	41500	45400	48200	53100	57050	63300	69850	76700	80600	89850	89850	93850	89400	83150	69750
Upper Quartile	33150	34650	36000	37250	38850	40800	43250	47700	51250	55750	59500	64950	66550	69850	71350	72000	70150	68900	56750
Median	31350	32300	33300	34800	36250	37250	38600	41650	44900	46750	49900	52250	53400	56950	59150	60600	59750	58850	44200
Lower Quartile	29700	30400	31000	31850	33250	34000	34600	36700	38100	39700	41400	43850	44750	47900	50550	49950	50000	49650	36000
Lower Decile	28450	28400	29100	29250	30600	31150	30950	32200	33900	34900	35350	37250	37500	39850	42000	43750	43450	42100	31600
Mean	31600	32650	33900	34750	36300	37900	39200	42350	45100	48150	51450	55350	57200	61650	63850	64850	63550	62400	48500
Supporting Data																			
Total Number	574	613	644	873	915	873	853	853	933	2097	1379	1120	987	885	736	632	680	1046	16691
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	4	11	12	12	12	18	72
Less Than $22000	4	1	1	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	12

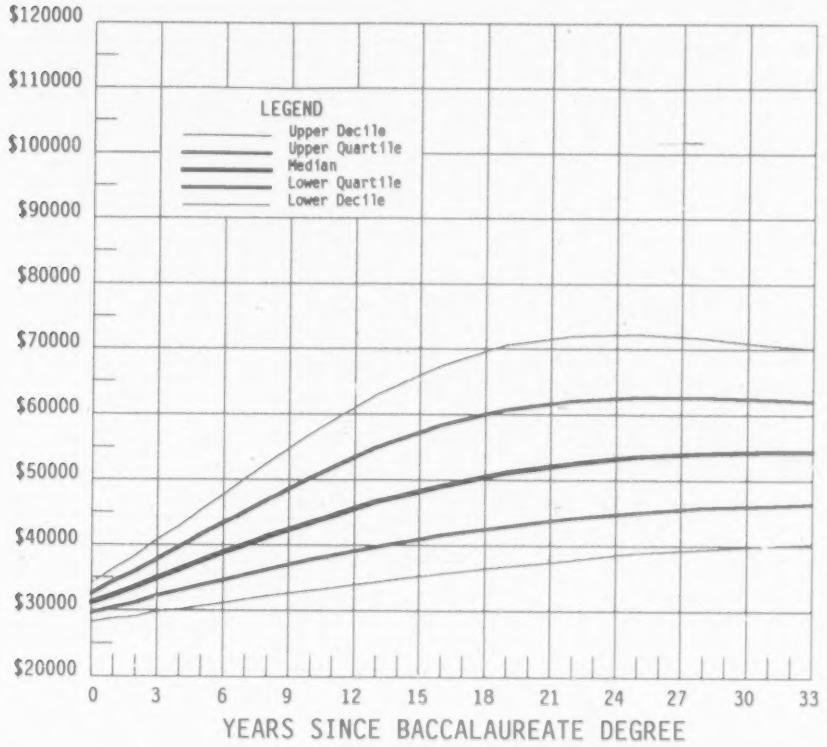
SALARY CURVES FOR ENGINEERS IN WEST SOUTH CENTRAL STATES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: WEST SOUTH CENTRAL STATES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	0	0	0	0	51800	54600	57500	60450	63450	69700	79200	88500	97100	104550	110650	115300	118650	122850	95100
Upper Quartile	0	0	0	0	47900	50200	52550	54950	57300	62050	68950	75150	80450	84650	87700	89750	91050	92200	74900
Median	0	0	0	0	44400	46200	47950	49700	51450	54850	59500	63500	66750	69200	70900	71950	72550	73000	62150
Lower Quartile	0	0	0	0	41700	42750	43800	44850	45850	47800	50650	53200	55500	57500	59200	60600	61700	63400	51700
Lower Decile	0	0	0	0	36150	36850	37600	38350	39100	40600	42800	44950	47000	48950	50750	52350	53700	55950	43950
Mean	0	0	0	0	44150	46000	47850	49750	51600	55350	60700	65650	69900	73450	76200	78250	79700	81450	66550
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	0	0	0	0	56600	55100	55050	58850	62600	71100	79600	86100	94900	109450	114550	112900	114250	117850	95100
Upper Quartile	0	0	0	0	48950	49250	51500	54250	56900	62750	69750	75300	78000	85600	88750	88750	88350	89700	74900
Median	0	0	0	0	44900	45700	47500	49050	50750	55150	60100	65150	65850	68200	70950	69900	70750	72100	62150
Lower Quartile	0	0	0	0	37850	41500	41750	44700	46100	48350	53250	53400	53100	55650	59700	58850	61800	62900	51700
Lower Decile	0	0	0	0	34700	37600	33850	39550	39350	40800	43800	45100	45700	48300	53750	48250	53200	55550	43950
Mean	0	0	0	0	44100	46300	46700	49150	51300	55700	61750	65800	68250	73650	77550	76150	77800	79650	66550
---------- Supporting Data ----------																			
Total Number	1	3	8	11	27	36	66	121	167	482	407	405	342	365	287	265	236	306	3550
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	4	11	12	11	12	18	71
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

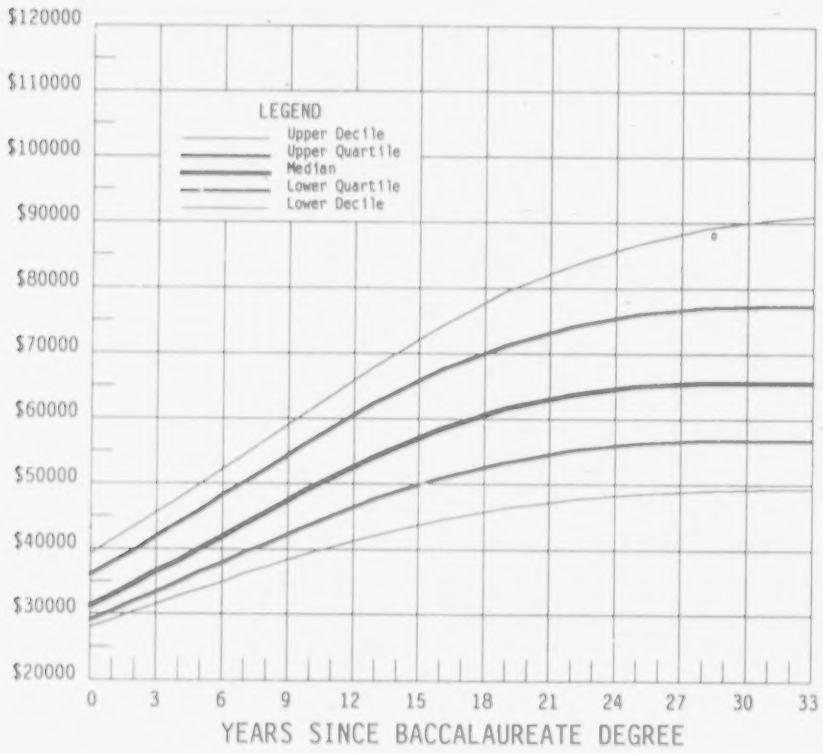
SALARY CURVES FOR ENGINEERS IN WEST SOUTH CENTRAL STATES NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: WEST SOUTH CENTRAL STATES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34150	36250	38450	40700	43000	45350	47750	50100	52450	56950	62950	67600	70600	72000	72250	71650	70650	68300	60500
Upper Quartile	32550	34300	36050	37900	39700	41550	43400	45200	47000	50400	54900	58400	60800	62200	62750	62700	62350	61150	50550
Median	31100	32350	33650	34950	36250	37500	38800	40050	41250	43550	46650	49200	51200	52600	53500	54050	54300	54400	40500
Lower Quartile	29550	30450	31300	32200	33050	33900	34750	35550	36350	37850	39850	41600	43050	44200	45100	45750	46200	46800	34550
Lower Decile	28200	28700	29200	29750	30250	30750	31250	31700	32200	33150	34500	35800	36900	37900	38800	39500	40050	40750	30900
Mean	31050	32400	33800	35200	36600	38000	39400	40750	42050	44550	47900	50600	52650	54050	54850	55250	55400	55150	43650
Raw (Unsmoothed) Statistics																			
Upper Decile	35000	36750	38600	39800	40900	44450	46750	51450	55150	59850	62200	65750	68400	69150	71250	72050	70900	69950	60500
Upper Quartile	33150	34600	35950	37200	38650	40500	42500	46200	49600	52500	54200	56050	58900	60700	62250	64250	62650	62150	50550
Median	31350	32250	33300	34800	36150	37050	38200	40550	43150	44400	45850	47950	49550	52000	54150	55500	54600	54800	40500
Lower Quartile	29700	30400	30950	31850	33150	33850	34400	36200	37250	38500	38900	40750	41800	43300	46750	47300	47450	46300	34550
Lower Decile	28450	28350	29100	29200	30600	31050	30650	31750	33100	33900	33750	35250	35750	37050	38750	40600	41600	40850	30900
Mean	31600	32600	33700	34650	36050	37500	38550	41200	43750	45900	47200	49550	51350	52950	55250	56850	56000	55250	43650
Supporting Data																			
Total Number	574	609	638	861	888	836	786	731	763	1614	971	714	642	517	452	368	441	740	13143
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Less Than $22000	4	1	1	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	12

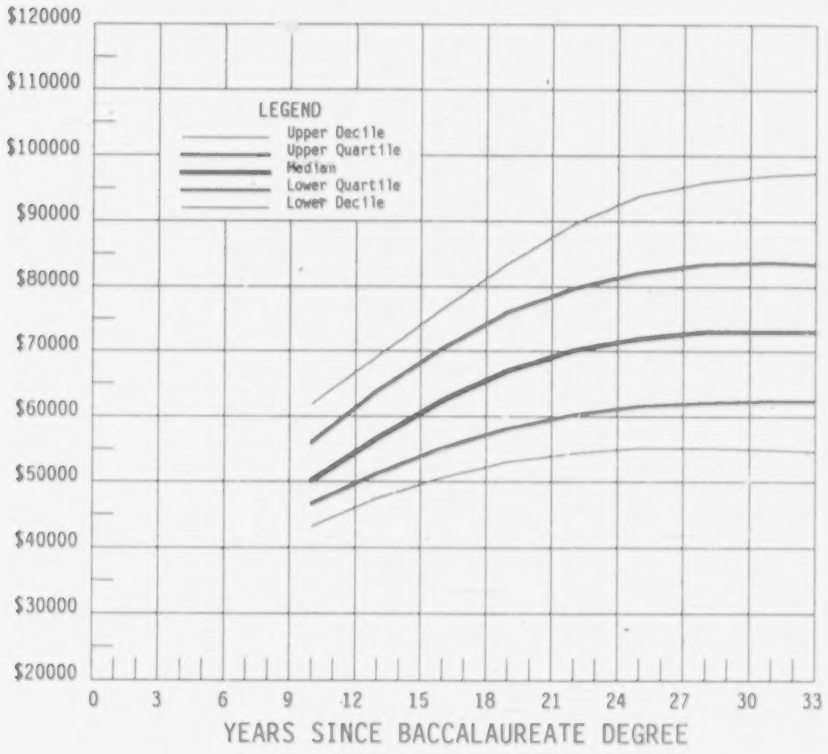
SALARY CURVES FOR ENGINEERS IN MOUNTAIN STATES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: MOUNTAIN STATES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	39300	41350	43400	45550	47750	49950	52250	54500	56800	61400	68050	74150	79350	83600	86750	89000	90450	91950	78200
Upper Quartile	35950	37850	39850	41850	43950	46000	48150	50250	52350	56500	62350	67350	71300	74150	76000	77000	77450	77300	64600
Median	31150	32850	34600	36400	38200	40050	41950	43800	45650	49250	54250	58450	61650	63850	65100	65650	65700	65150	54150
Lower Quartile	29000	30400	31900	33350	34900	36400	37900	39400	40900	43750	47650	50900	53400	55100	56150	56700	56850	56650	43650
Lower Decile	28000	29150	30350	31550	32700	33900	35050	36200	37300	39400	42250	44600	46450	47750	48600	49050	49300	49350	36050
Mean	32450	34150	35850	37650	39450	41250	43100	44950	46750	50350	55350	59700	63200	65750	67400	68400	68850	68950	56200
Raw (Unsmoothed) Statistics																			
Upper Decile	34350	40400	44850	45700	48500	52250	52750	56200	57450	61050	65150	72150	80100	84500	89800	90500	90750	91000	78200
Upper Quartile	31850	35700	40850	41950	44450	47900	50050	52650	53450	56750	60000	64750	70000	74450	77900	78250	77950	78000	64600
Median	29900	33050	35250	36450	38300	38100	42400	46200	45400	49550	54000	57900	61300	63850	64900	65650	66700	65400	54150
Lower Quartile	28150	30800	32550	33600	34900	35350	37950	40600	40200	43300	48150	50350	53650	54400	57050	58250	57950	55400	43650
Lower Decile	26200	28750	30250	32200	32950	34050	35300	37900	37350	39050	43550	41300	46900	47700	50100	50300	49200	49100	36050
Mean	30100	33750	36600	37900	39550	41100	43450	47050	46750	50350	54450	58500	63050	65600	69100	68800	69500	68750	56200
Supporting Data																			
Total Number	35	80	106	113	145	149	162	136	138	451	349	325	336	267	254	249	241	326	3860
$125,000 or More	0	0	0	0	0	0	0	0	0	1	0	2	3	1	3	1	2	7	19
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

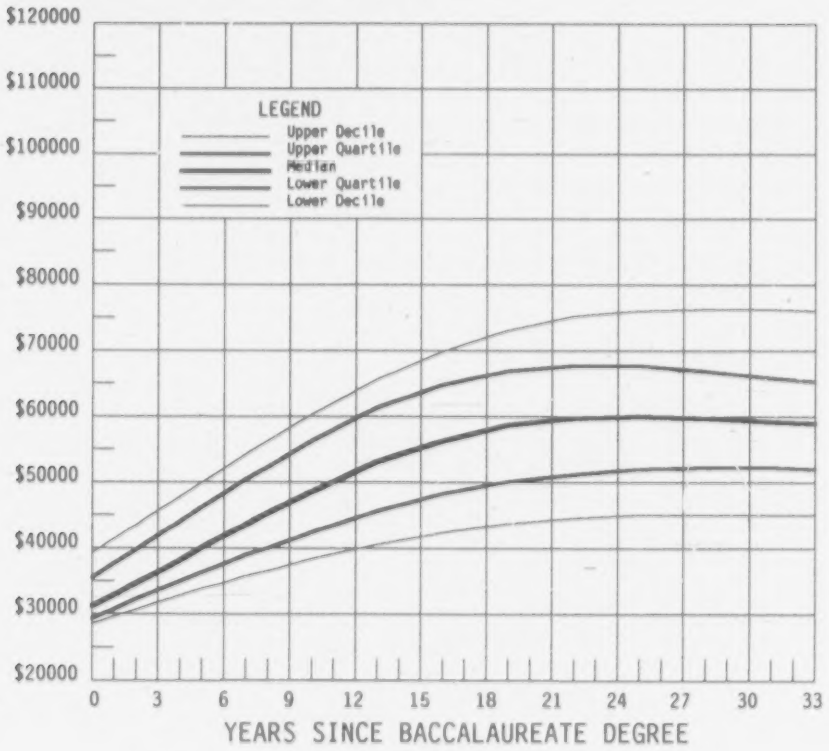
SALARY CURVES FOR ENGINEERS IN MOUNTAIN STATES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: MOUNTAIN STATES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	0	0	0	0	0	0	0	0	0	62000	69200	76450	83600	89650	93750	96050	97100	97600	90250
Upper Quartile	0	0	0	0	0	0	0	0	0	56100	63700	70500	75950	79850	82250	83400	83650	82850	78900
Median	0	0	0	0	0	0	0	0	0	50200	56650	62300	66850	70100	72050	73000	73200	72550	66950
Lower Quartile	0	0	0	0	0	0	0	0	0	46650	51300	55200	58250	60350	61600	62250	62400	62050	56900
Lower Decile	0	0	0	0	0	0	0	0	0	43200	47350	50700	53100	54500	55150	55200	54900	53900	50900
Mean	0	0	0	0	0	0	0	0	0	52150	58450	64000	68450	71700	73750	74850	75250	74950	69750
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	0	0	0	0	0	0	0	0	0	68800	70650	75400	83700	89500	98900	96650	99500	98850	90250
Upper Quartile	0	0	0	0	0	0	0	0	0	58900	62700	66950	77150	80300	84700	84650	85400	86500	78900
Median	0	0	0	0	0	0	0	0	0	53550	55000	60200	65500	71200	75150	76400	74600	74650	66950
Lower Quartile	0	0	0	0	0	0	0	0	0	47900	50950	54100	57800	60650	61650	63650	64750	64900	56900
Lower Decile	0	0	0	0	0	0	0	0	0	43400	47600	50600	53000	52000	56750	56900	55600	57050	50900
Mean	0	0	0	0	0	0	0	0	0	54650	57450	61650	68550	71700	76550	76150	77100	78050	69750
---------- Supporting Data ----------																			
Total Number	0	1	2	0	0	1	3	5	8	62	117	146	169	136	131	120	113	156	1159
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	3	1	3	0	2	5	14
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

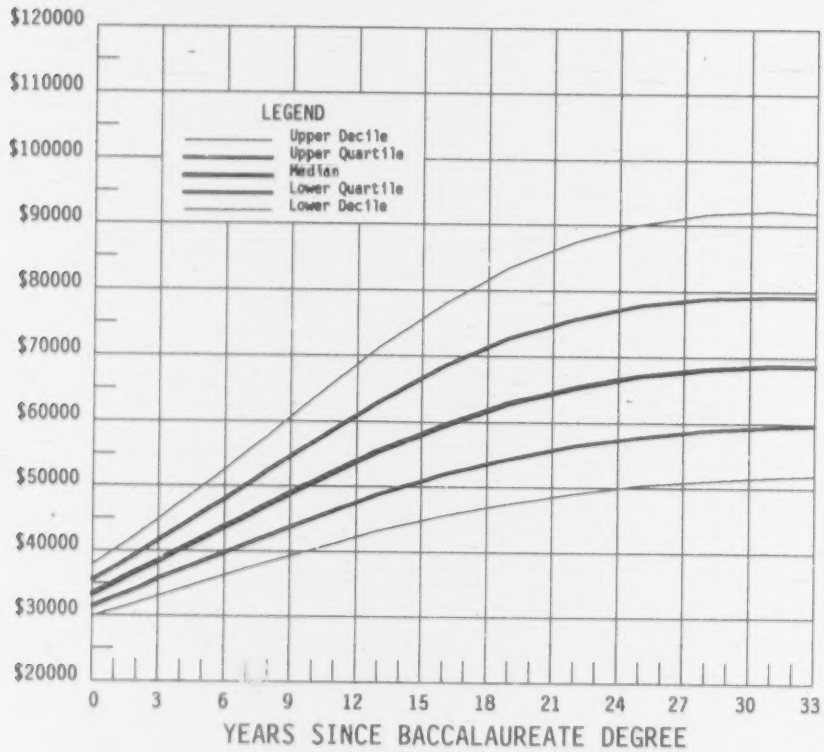
SALARY CURVES FOR ENGINEERS IN MOUNTAIN STATES
NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: MOUNTAIN STATES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	39300	41350	43400	45550	47700	49850	52000	54100	56200	60200	65600	69950	73100	75100	76100	76400	76250	75300	66100
Upper Quartile	35500	37550	39650	41750	43900	46100	48200	50350	52400	56300	61250	64850	67000	67850	67700	67000	66000	63750	58650
Median	31100	32850	34600	36350	38150	40000	41800	43550	45300	48650	53000	56350	58550	59700	60050	59850	59300	57900	49100
Lower Quartile	29450	30800	32150	33500	34850	36200	37550	38850	40100	42500	45700	48200	50050	51250	51900	52150	52150	51750	39750
Lower Decile	28450	29500	30600	31650	32700	33750	34750	35700	36650	38400	40650	42400	43700	44500	45000	45200	45200	45000	34600
Mean	32400	34100	35800	37600	39350	41100	42850	44600	46300	49500	53750	57050	59300	60550	61050	61000	60650	59550	50350
Raw (Unsmoothed) Statistics																			
Upper Decile	34350	39850	44400	45700	48500	52300	52750	55800	57150	60150	62900	67800	70950	75400	75600	77800	78400	78350	66100
Upper Quartile	31850	35600	40350	41950	44450	47600	50000	52500	53250	56350	59200	62900	64200	66000	66950	68100	69200	66600	58650
Median	29900	33000	35200	36450	38300	38000	42400	46600	45100	48850	53050	54500	57100	60450	60100	61150	61700	58350	49100
Lower Quartile	28150	30800	32450	33600	34900	35350	37900	40500	40050	42700	46550	45350	48650	50600	52800	55900	53400	51750	39750
Lower Decile	26200	28700	30200	32200	32950	34050	35250	37750	37200	38600	41050	39300	41550	42800	47700	47350	45650	46350	34600
Mean	30100	33600	36250	37900	39550	41050	43400	46650	46300	49600	52750	55900	57700	59850	61200	62600	62750	60800	50350
Supporting Data																			
Total Number	35	79	104	113	145	148	160	132	131	389	231	180	169	136	125	131	128	173	2704
$125,000 or More	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	1	0	2	5
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

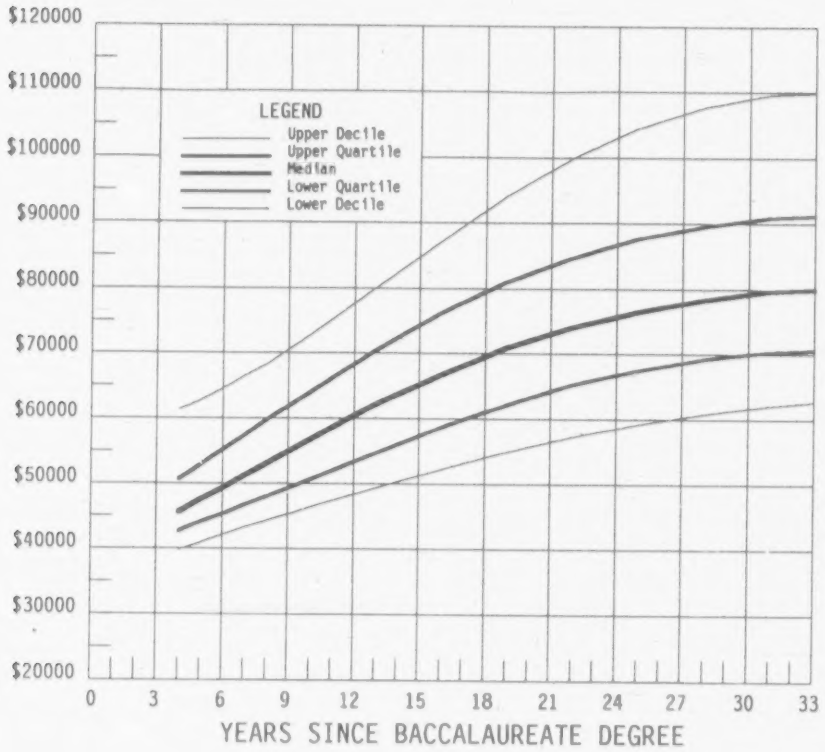
SALARY CURVES FOR ENGINEERS IN PACIFIC STATES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: PACIFIC STATES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	37850	40100	42450	44850	47400	49950	52600	55250	57950	63350	71100	78000	83550	87600	90250	91650	92150	91850	80950
Upper Quartile	35400	37400	39400	41500	43650	45850	48050	50250	52500	56850	63050	68450	72750	75850	77800	78850	79300	79100	68350
Median	33350	35000	36700	38400	40150	41900	43650	45450	47200	50600	55400	59550	62900	65400	67100	68150	68700	69050	56100
Lower Quartile	31550	32900	34250	35650	37050	38400	39800	41150	42500	45100	48750	51900	54500	56500	57950	58950	59600	60250	45300
Lower Decile	29800	30900	32000	33050	34150	35250	36300	37350	38400	40400	43150	45550	47550	49150	50350	51250	51850	52600	37200
Mean	33800	35450	37200	38950	40750	42550	44400	46200	48050	51600	56650	61050	64700	67450	69400	70650	71350	71850	58450
Raw (Unsmoothed) Statistics																			
Upper Decile	37300	40650	42700	43900	46750	49450	52900	55500	59550	64700	71100	75950	81150	87400	89900	93600	94300	92250	80950
Upper Quartile	35100	37000	39200	41000	43350	45600	48500	51550	54550	58100	62500	66400	70450	75550	77400	80600	80700	79950	68350
Median	33250	34750	36450	37800	39550	41500	44000	46300	49250	51800	54900	57950	61250	65300	67150	68850	68950	70200	56100
Lower Quartile	31650	32650	34250	35200	36550	38050	39250	41200	44550	46200	48400	50650	53350	56750	57700	59300	60050	61050	45300
Lower Decile	29800	30400	31700	32800	34300	35150	36200	37800	39600	41200	42600	44300	46950	49100	50950	51300	51850	53350	37200
Mean	33550	35450	37250	38450	40200	42350	44300	46700	49600	52650	56200	59500	63300	67650	69550	71650	72000	72450	58450
Supporting Data																			
Total Number	360	400	470	463	497	502	487	578	698	1859	1449	1477	1332	1310	1232	1159	1015	1851	17123
$125,000 or More	0	0	0	0	0	0	0	0	0	0	1	1	7	11	12	14	13	27	86
Less Than $22000	3	0	1	1	2	2	1	0	2	0	0	0	0	0	0	0	0	0	11

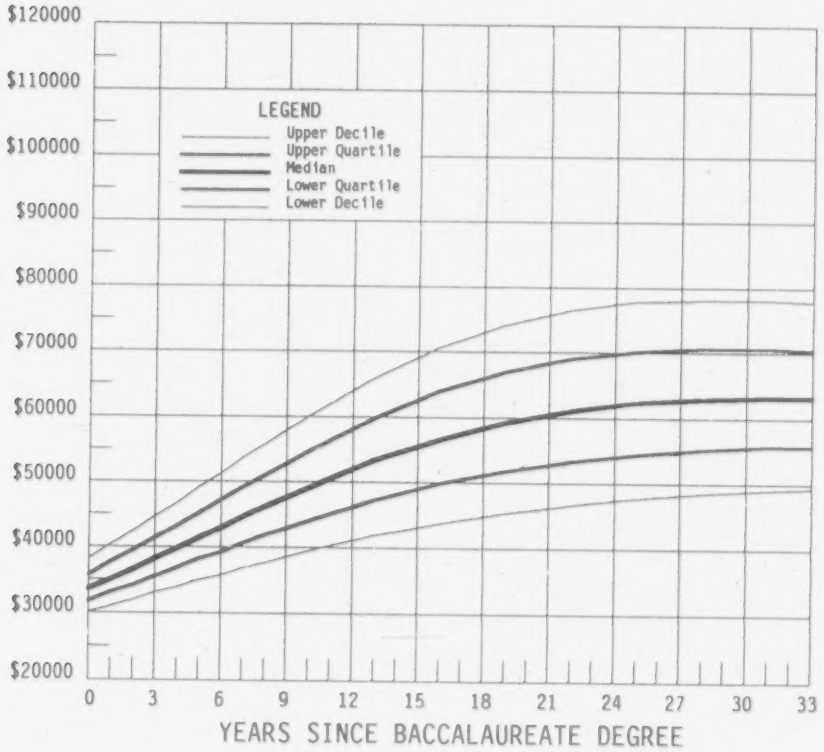
SALARY CURVES FOR ENGINEERS IN PACIFIC STATES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: PACIFIC STATES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	61300	62800	64500	66350	68350	72750	79950	87300	94150	100050	104550	107700	109600	111050	97350
Upper Quartile	0	0	0	0	50650	52850	55100	57400	59650	64100	70500	76200	81050	84850	87700	89650	90900	92150	83400
Median	0	0	0	0	45550	47400	49300	51200	53050	56750	62050	66800	70850	74100	76650	78450	79650	81100	71800
Lower Quartile	0	0	0	0	42750	44000	45300	46600	47950	50650	54800	58700	62250	65250	67600	69300	70450	71400	60500
Lower Decile	0	0	0	0	39750	40850	42000	43100	44200	46350	49450	52350	54950	57250	59250	60900	62250	64250	51450
Mean	0	0	0	0	46950	48850	50800	52700	54650	58450	63900	68900	73200	76750	79550	81650	83100	84900	74000
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	60400	66000	63200	64150	65500	75050	81100	85600	92000	99900	105250	109100	112250	110350	97350
Upper Quartile	0	0	0	0	48250	51500	53600	57000	59700	65600	71350	75600	78950	84150	88100	91150	92900	91550	83400
Median	0	0	0	0	43700	45800	49450	51750	53100	57650	61900	66700	69050	74700	76400	79600	81250	80450	71800
Lower Quartile	0	0	0	0	40600	42050	46150	47050	47900	51750	54300	58600	60950	65800	67650	69600	69350	72700	60500
Lower Decile	0	0	0	0	37250	39000	42800	40900	43500	48550	49200	51850	53700	58400	59100	60550	61700	65150	51450
Mean	0	0	0	0	46100	48800	50800	52400	53900	59600	63750	68200	72000	77550	79950	82300	83950	84450	74000
Supporting Data																			
Total Number	1	4	15	10	19	30	44	69	105	368	418	487	512	563	507	503	405	654	4711
$125,000 or More	0	0	0	0	0	0	0	0	0	0	1	1	7	11	12	14	13	25	83
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SALARY CURVES FOR ENGINEERS IN PACIFIC STATES
NON-SUPERVISORS, ALL DEGREE LEVELS

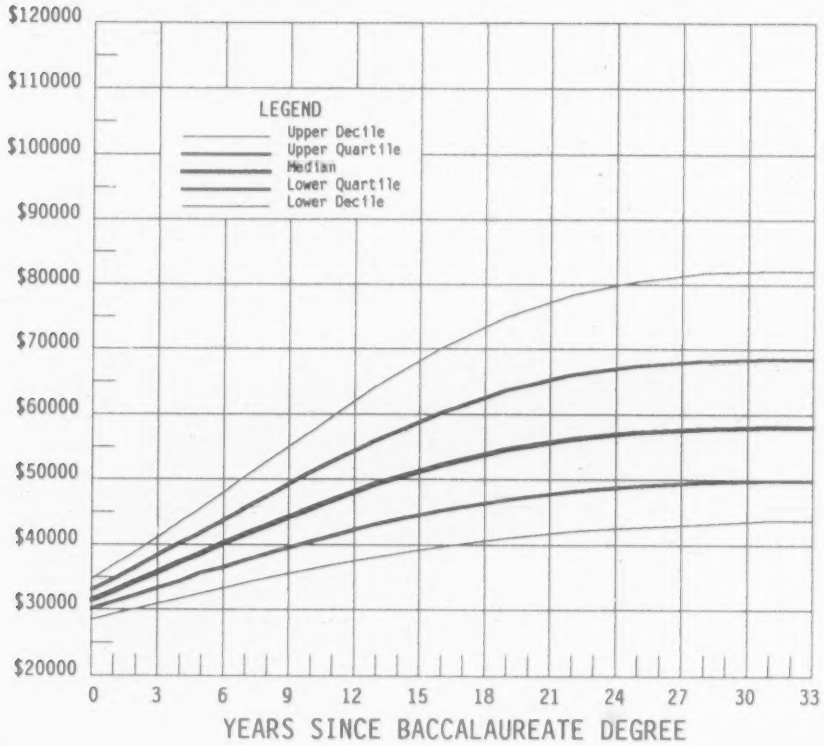


1990 ENGINEERING SALARY STATISTICS: PACIFIC STATES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	38200	40250	42400	44550	46800	49000	51250	53500	55700	60000	65800	70650	74200	76550	77800	78250	78200	77250	70500
Upper Quartile	35650	37500	39400	41300	43250	45200	47200	49150	51050	54750	59750	63900	66950	68950	70100	70550	70550	69850	61450
Median	33500	35050	36650	38250	39850	41450	43050	44650	46200	49200	53250	56650	59300	61150	62350	63000	63250	63250	51550
Lower Quartile	31750	33000	34250	35550	36800	38050	39300	40550	41750	44000	47150	49750	51800	53400	54450	55150	55600	55900	41850
Lower Decile	30050	31050	32050	33000	33950	34900	35850	36750	37650	39400	41750	43750	45450	46800	47850	48650	49200	49850	35800
Mean	33950	35500	37100	38700	40300	41900	43500	45050	46600	49600	53650	57050	59650	61500	62750	63400	63700	63750	52600
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	37300	40500	41850	43800	46550	48750	52250	54700	58300	62050	65150	67450	72000	74150	76800	78500	78450	80550	70500
Upper Quartile	35100	36950	38900	40850	43150	45200	47700	50850	53750	56400	59250	61350	63800	66950	69550	70600	71100	72850	61450
Median	33250	34750	36350	37700	39400	41150	43350	45550	48750	50500	52700	54700	57450	60050	61550	63150	64100	65250	51550
Lower Quartile	31650	32650	34200	35150	36450	37850	38850	40850	44100	45100	46800	48250	50650	52550	54100	55200	55950	57500	41850
Lower Decile	29800	30350	31600	32750	34250	35050	36050	37600	39250	40300	41200	42250	44400	45750	47650	49000	49950	51200	35800
Mean	33550	35350	36700	38300	39950	41800	43650	45950	48900	50950	53100	55200	57800	60200	62250	63500	64150	65900	52600
---------- Supporting Data ----------																			
Total Number	359	398	457	453	478	467	442	510	594	1492	1027	991	820	746	727	655	608	1200	12411
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2
Less Than $22000	3	0	1	1	2	2	1	0	2	0	0	0	0	0	0	0	0	0	11

CURVES AND TABLES FOR SELECTED INDUSTRIAL SECTORS

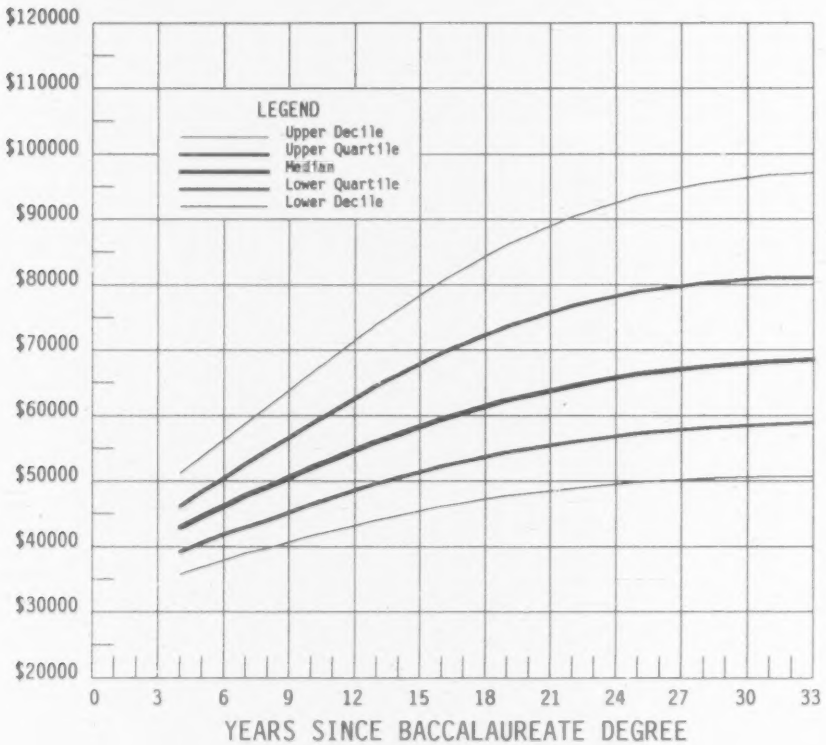
SALARY CURVES FOR ENGINEERS IN ALL MANUFACTURING INDUSTRIES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ALL MANUFACTURING INDUSTRIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	34800	36800	38900	41100	43350	45650	47950	50350	52750	57450	64250	70200	75000	78450	80650	81850	82250	81950	68350
Upper Quartile	33050	34750	36500	38300	40150	42000	43850	45700	47500	51100	56100	60350	63650	66050	67550	68350	68650	68550	56250
Median	31500	32900	34350	35800	37250	38700	40150	41600	43000	45650	49300	52300	54600	56250	57300	57900	58150	58150	45950
Lower Quartile	30050	31150	32250	33400	34500	35600	36650	37700	38750	40650	43250	45350	47050	48250	49050	49300	49900	50100	38150
Lower Decile	28600	29400	30200	31000	31800	32600	33350	34100	34850	36200	38100	39700	41000	42050	42800	43300	43650	43900	33050
Mean	31550	33050	34500	36000	37550	39050	40550	42100	43550	46450	50450	53900	56600	58650	60050	60950	61450	61750	49050
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	35150	36850	38850	40350	43200	45400	47800	50700	53350	58250	63950	70250	73450	79250	79650	81300	82550	82750	68350
Upper Quartile	33150	34500	36150	37700	40100	42350	44150	46250	48350	51750	55850	59650	61300	66800	67800	67500	68500	69800	56250
Median	31550	32700	33850	35500	37300	38950	40350	42350	43900	46050	48950	51350	53250	56600	57550	57950	58400	58600	45950
Lower Quartile	30400	30950	31800	33050	34250	36000	36550	38000	39350	41400	42700	44250	45950	48900	49600	50100	50700	49700	38150
Lower Decile	28900	29500	30100	30550	31750	32700	32900	34350	35050	36750	37600	38950	40950	42850	43200	43800	44150	43000	33050
Mean	31950	33050	34200	35550	37350	39100	40450	42450	44050	47000	50200	53200	55450	59700	60450	60900	61700	61700	49050
---------- Supporting Data ----------																			
Total Number	1375	1888	1790	2195	2544	2682	2376	2302	2258	6358	4123	3726	3928	3132	2975	2520	2548	4100	52818
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	4	12	21	22	20	25	47	151
Less Than $22000	10	21	9	1	6	1	1	1	0	3	0	0	0	1	1	0	0	0	54

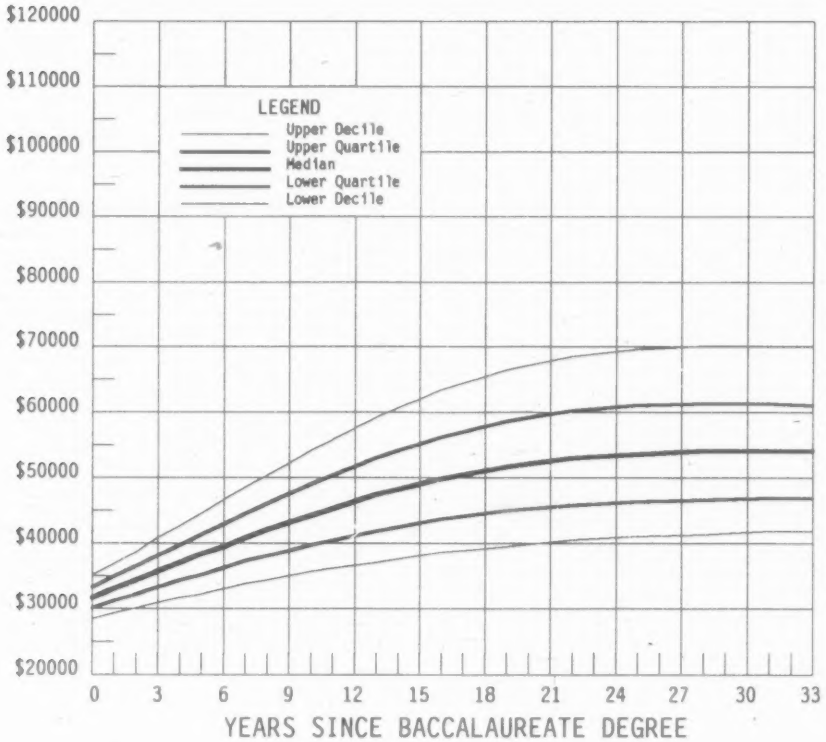
SALARY CURVES FOR ENGINEERS IN ALL MANUFACTURING INDUSTRIES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ALL MANUFACTURING INDUSTRIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	51200	53700	56250	58800	61400	66500	73900	80550	86100	90450	93550	95550	96700	97650	86250
Upper Quartile	0	0	0	0	46250	48300	50400	52500	54600	58700	64500	69550	73650	76750	78900	80250	81000	81450	72550
Median	0	0	0	0	43050	44600	46150	47650	49150	52050	56050	59500	62400	64650	66300	67450	68250	69100	60600
Lower Quartile	0	0	0	0	39250	40500	41750	42950	44100	46400	49500	52150	54350	56050	57300	58200	58800	59500	51100
Lower Decile	0	0	0	0	35850	36900	37900	38900	39850	41650	44050	46100	47700	48900	49750	50300	50650	51000	44200
Mean	0	0	0	0	43250	44950	46650	48350	50050	53350	57950	62050	65450	68100	70050	71400	72300	73200	63850
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	52400	51450	55600	58800	59150	68100	75150	79200	84450	92800	91650	95750	96250	98400	86250
Upper Quartile	0	0	0	0	46450	46650	50300	53450	54400	59000	64650	69350	73200	78200	76900	80600	81700	81500	72550
Median	0	0	0	0	42900	43400	46650	47800	49200	52400	55750	59500	61400	66200	66100	66800	68500	69000	60600
Lower Quartile	0	0	0	0	38650	39400	40550	44600	44650	46750	49500	52200	52800	57400	56550	58650	60200	58900	51100
Lower Decile	0	0	0	0	33750	36500	37250	41600	40500	42150	43200	45200	47050	51200	49600	49250	52350	50250	44200
Mean	0	0	0	0	43250	43950	46400	49550	49850	53650	57800	61650	64700	70100	69050	71350	73050	72850	63850
Supporting Data																			
Total Number	10	44	41	61	96	147	207	238	317	1228	1090	1210	1278	1139	1167	868	914	1435	11492
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	4	12	20	20	20	24	46	147
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2

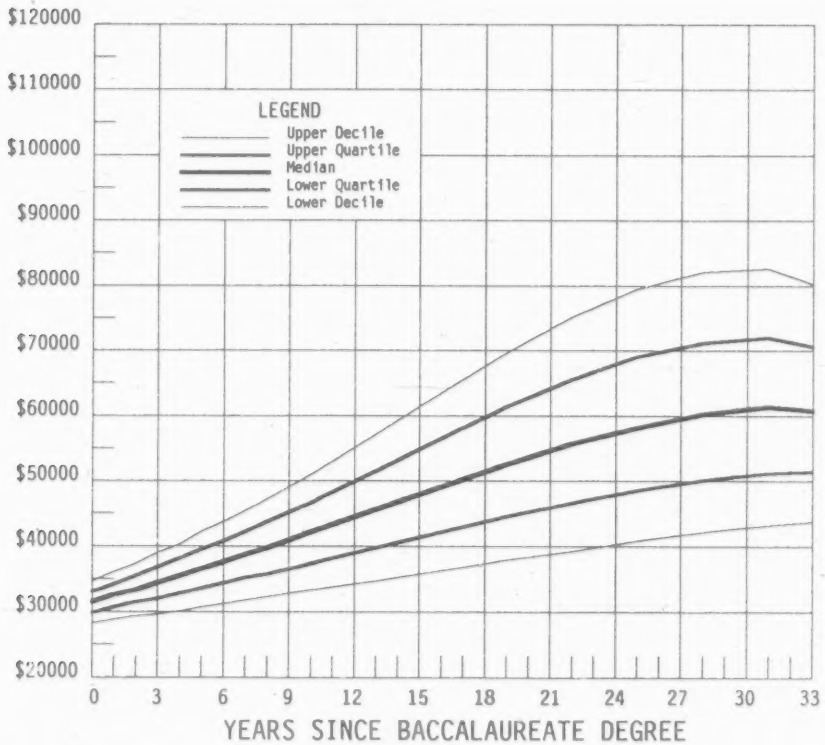
SALARY CURVES FOR ENGINEERS IN ALL MANUFACTURING INDUSTRIES NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ALL MANUFACTURING INDUSTRIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	35100	36900	38800	40700	42650	44600	46550	48500	50400	54150	59200	63350	66500	68550	69700	70200	70250	69600	59700
Upper Quartile	33250	34850	36450	38100	39750	41400	43000	44650	46200	49200	53200	56350	58700	60200	61000	61300	61250	60700	51500
Median	31700	33050	34350	35700	37000	38350	39600	40900	42100	44400	47450	49900	51700	52950	53650	54000	54100	53900	43200
Lower Quartile	30150	31200	32250	33300	34300	35300	36300	37250	38150	39800	42000	43750	45050	45950	46500	46800	46900	46850	36600
Lower Decile	28650	29400	30150	30900	31650	32350	33050	33750	34400	35600	37200	38550	39600	40450	41050	41450	41750	42100	32300
Mean	31750	33100	34450	35800	37150	38500	39800	41100	42350	44700	47900	50450	52400	53750	54600	55000	55200	55100	44950
Raw (Unsmoothed) Statistics																			
Upper Decile	35050	36500	38550	40200	42750	44850	46650	49300	51800	55100	58900	62200	63350	67700	69750	69800	69650	72100	59700
Upper Quartile	33100	34350	36050	37600	39900	42050	43650	45550	47000	49800	52850	54800	56600	59500	60800	61450	60950	62600	51500
Median	31550	32650	33800	35450	37200	38800	40050	41750	43150	44900	46800	47900	50450	52850	54000	54650	54700	54450	43200
Lower Quartile	30400	30950	31750	33000	34200	35800	36250	37550	38900	40550	41500	42400	44200	45900	46150	47750	47400	47100	36600
Lower Decile	28850	29450	30050	30500	31700	32550	32600	34050	34450	36250	36650	37500	39200	41050	41800	42300	42400	41350	32300
Mean	31900	32900	34050	35400	37100	38800	39900	41600	43150	45400	47450	49200	51050	53650	54850	55450	55350	55700	44950
Supporting Data																			
Total Number	1365	1847	1748	2132	2450	2531	2168	2065	1943	5135	3032	2519	2653	1991	1804	1650	1636	2663	41330
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	4
Less Than $22000	10	21	9	1	6	1	1	1	0	3	0	0	0	0	0	0	0	0	53

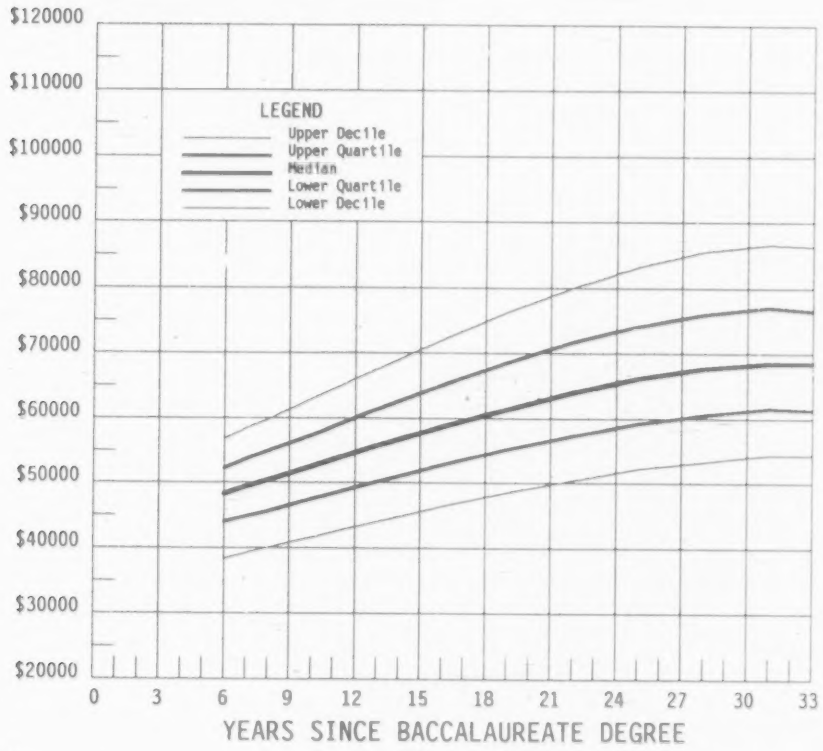
SALARY CURVES FOR ENGINEERS IN AEROSPACE
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: AEROSPACE

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34550	35950	37350	38850	40400	42050	43700	45450	47250	51050	57100	63450	69650	75200	79600	82200	82600	73550	67300
Upper Quartile	33100	34250	35500	36750	38050	39400	40800	42250	43750	46800	51600	56500	61300	65550	69000	71200	71950	66600	56250
Median	31550	32500	33450	34450	35500	36550	37600	38700	39850	42100	45650	49150	52550	55650	58250	60150	61200	59400	43050
Lower Quartile	29950	30650	31350	32100	32800	33550	34300	35100	35850	37400	39800	42150	44400	46550	48450	50000	51200	52050	35500
Lower Decile	28300	28750	29250	29700	30200	30700	31200	31700	32200	33200	34750	36300	37800	39250	40700	42000	43150	45500	31500
Mean	31400	32350	33350	34400	35450	36550	37650	38800	39950	42350	46000	49700	53250	56500	59150	61100	62050	59750	46800
Raw (Unsmoothed) Statistics																			
Upper Decile	33550	34600	36500	38250	40200	41750	45300	46600	49250	53300	59400	63300	70400	71650	76300	75850	77650	76350	67300
Upper Quartile	32150	33100	34700	36750	37850	39250	41550	43300	45300	48300	53550	55600	61750	63800	66700	67900	68050	68550	56250
Median	30950	31500	32650	34700	35750	36550	38150	39300	40650	43050	45850	48100	51000	55400	58100	60050	59450	60100	43050
Lower Quartile	29650	30200	30650	32250	33200	33850	34900	35350	36500	37800	38700	40650	42050	46450	50550	51950	51000	51750	35500
Lower Decile	28350	28600	28750	30150	30600	31050	31250	31750	32650	33350	32900	35200	35700	38900	42850	44750	44550	44550	31500
Mean	30950	31600	32650	34350	35600	36450	38300	39400	40950	43250	46400	48750	52550	55700	58950	60100	60350	60550	46800
Supporting Data																			
Total Number	301	423	536	795	827	746	721	584	503	1152	781	562	583	598	780	635	841	1754	13122
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	4
Less Than $22000	2	0	1	1	0	1	1	1	0	1	0	0	0	1	1	0	0	0	10

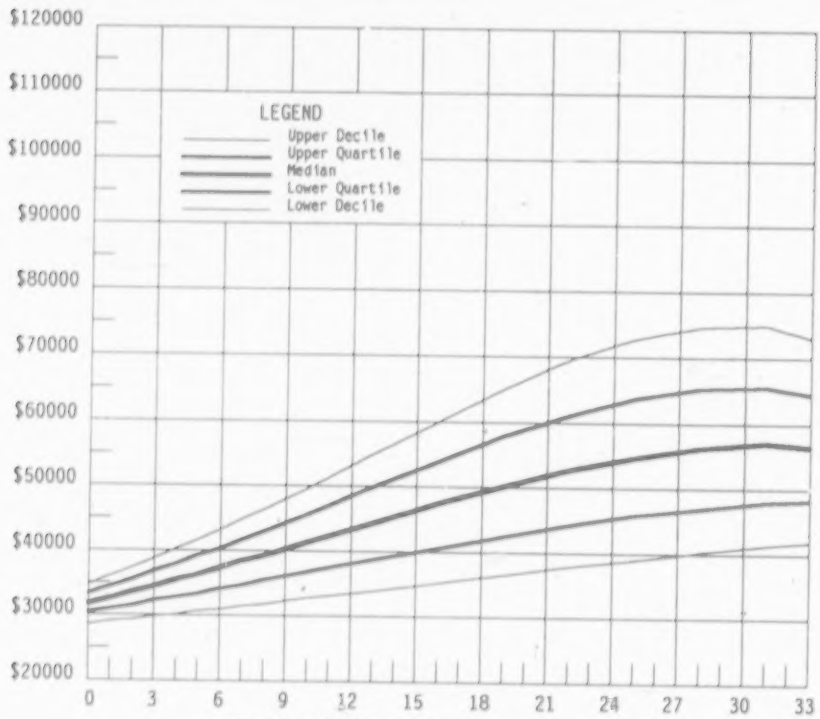
SALARY CURVES FOR ENGINEERS IN AEROSPACE SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: AEROSPACE, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	0	56850	58350	59850	62850	67450	71950	76250	80050	83250	85550	86800	84750	82550
Upper Quartile	0	0	0	0	0	0	52250	53550	54850	57400	61300	65100	68600	71700	74250	76050	77000	75100	73000
Median	0	0	0	0	0	0	48250	49300	50350	52450	55600	58600	61450	64000	66100	67700	68650	68000	64650
Lower Quartile	0	0	0	0	0	0	43950	44850	45700	47500	50200	52750	55150	57350	59150	60550	61500	61300	56600
Lower Decile	0	0	0	0	0	0	38450	39250	40050	41650	44000	46350	48500	50450	52150	53450	54350	54400	48550
Mean	0	0	0	0	0	0	48450	49550	50600	52800	56000	59150	62050	64700	66850	68450	69450	68600	65100
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	0	58400	57600	55900	61800	67250	71750	81950	81800	82800	82850	85100	85400	82550
Upper Quartile	0	0	0	0	0	0	51900	52500	52800	56700	61600	65500	73250	71550	74050	74200	76000	75550	73000
Median	0	0	0	0	0	0	48200	46600	47750	52900	56550	57350	65100	63550	66300	66400	67700	68350	64650
Lower Quartile	0	0	0	0	0	0	41750	44200	43250	48550	51700	51000	56250	57550	58750	60750	60850	61500	56600
Lower Decile	0	0	0	0	0	0	36600	41450	37100	43900	43050	44300	47700	51650	53300	53300	53300	54500	48550
Mean	0	0	0	0	0	0	48350	49450	47850	52800	56550	57600	65200	64650	66950	67300	68850	68850	65100
Supporting Data																			
Total Number	0	0	1	0	3	8	22	26	21	99	111	96	139	188	295	232	296	585	2122
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	4
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2

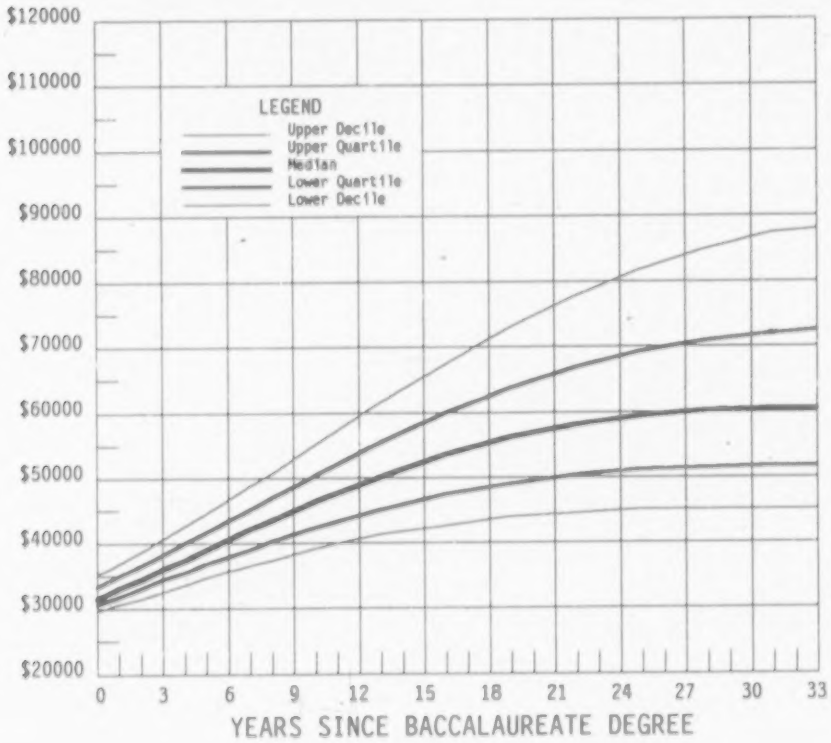
SALARY CURVES FOR ENGINEERS IN AEROSPACE NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: AEROSPACE, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	34750	36050	37350	38750	40150	41650	43150	44700	46350	49650	54850	60100	65150	69500	72850	74700	74850	67500	60200
Upper Quartile	33300	34400	35550	36700	37900	39150	40400	41700	43000	45700	49850	53950	57800	61150	63750	65300	65700	60950	50250
Median	31800	32650	33550	34500	35400	36350	37350	38300	39300	41300	44350	47350	50150	52700	54750	56200	56950	55300	40200
Lower Quartile	30300	30900	31550	32150	32800	33450	34100	34750	35400	36700	38700	40650	42500	44200	45750	47000	48000	48950	34550
Lower Decile	28550	28950	29400	29800	30200	30600	31050	31450	31850	32700	34000	35300	36600	37850	39050	40250	41350	43850	31000
Mean	31650	32550	33450	34400	35350	36300	37300	38300	39300	41350	44500	47550	50450	53000	55100	56550	57300	55400	43250
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	33550	34600	36500	38250	40150	41600	44450	46100	48750	51600	57000	59700	63950	66150	67150	70200	69750	70500	60200
Upper Quartile	32150	33100	34700	36750	37850	39200	41250	42900	44900	47050	51250	53400	55650	59500	60750	62750	62050	62950	50250
Median	30950	31500	32650	34700	35750	36550	38050	39000	40450	42350	44100	46450	48400	51900	53700	55900	55400	56200	40200
Lower Quartile	29650	30200	30650	32250	33200	33850	34750	35150	36350	37350	37900	39800	39950	43200	46600	48400	48150	48950	34550
Lower Decile	28350	28600	28750	30150	30600	31000	31150	31600	32500	32950	32300	34750	34800	37200	40650	42350	43100	43050	31000
Mean	30950	31600	32650	34350	35550	36400	38000	38950	40650	42350	44700	46950	48600	51600	54100	55950	55700	56400	43250
---------- Supporting Data ----------																			
Total Number	301	423	535	795	824	738	699	558	482	1053	670	466	444	410	485	403	545	1169	11000
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	2	0	1	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	8

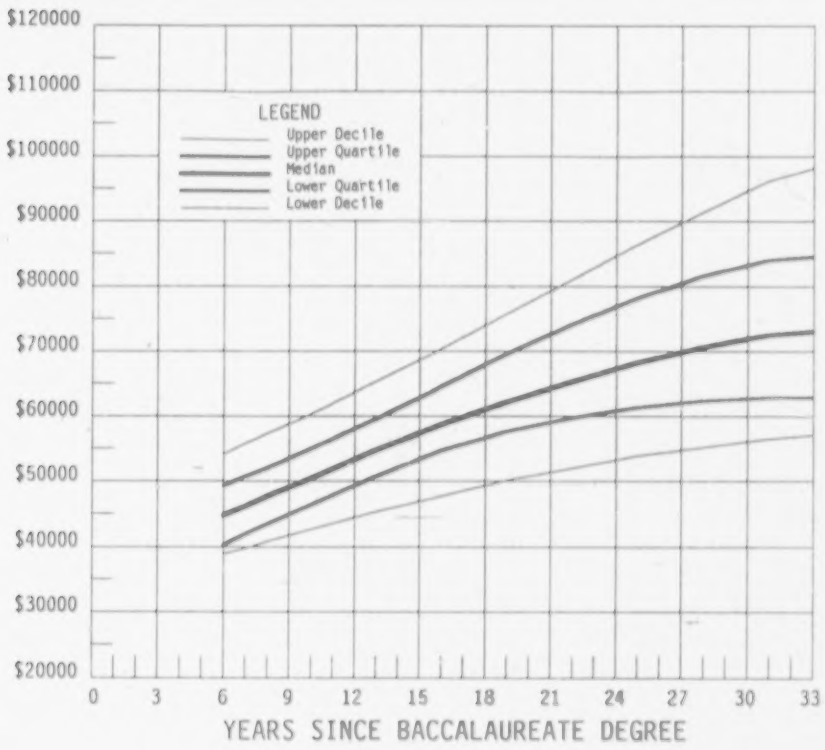
SALARY CURVES FOR ENGINEERS IN BASIC METALS
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: BASIC METALS

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	35100	36850	38700	40600	42550	44550	46600	48700	50800	55100	61500	67600	73200	78000	82000	85100	87350	90400	68600
Upper Quartile	33250	34850	36500	38200	39900	41600	43350	45150	46900	50350	55350	59900	63750	66900	69300	71000	72100	73400	57950
Median	31500	32950	34450	35950	37450	38950	40500	42000	43450	46300	50250	53550	56200	58100	59400	60150	60500	60650	48150
Lower Quartile	30600	31800	33050	34300	35500	36700	37900	39050	40200	42350	45150	47450	49200	50400	51150	51600	51750	51700	41150
Lower Decile	29500	30550	31600	32650	33650	34650	35650	36550	37450	39100	41200	42800	43950	44650	45050	45200	45150	44900	34650
Mean	31850	33300	34750	36250	37800	39300	40850	42350	43900	46850	51050	54750	57900	60350	62150	63450	64250	65150	50950
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	33400	35600	38400	42350	43950	45700	48750	53450	49300	54900	60750	65750	73000	75150	81800	83500	84000	95100	68600
Upper Quartile	32250	34550	35250	39950	40900	41950	44950	46800	46500	50000	55700	59600	63000	65000	67550	72500	69700	74350	57950
Median	31400	32850	33350	36350	37350	39500	42200	43000	43650	45400	50850	53300	56600	56200	58400	62300	61000	57800	48150
Lower Quartile	30700	31300	31750	34600	34900	37500	39550	40450	41150	42000	45300	46250	48450	48250	51350	55600	53250	47900	41150
Lower Decile	30300	30450	30450	33100	30200	36050	36500	38650	38100	39050	41100	42300	42350	43700	46500	47400	48200	40350	34650
Mean	31600	32950	33400	37150	37100	40200	42450	44500	44100	46350	51450	53350	57400	59400	61350	65650	64000	63100	50950
---------- Supporting Data ----------																			
Total Number	43	46	43	38	41	43	55	67	73	213	155	115	135	87	98	85	84	89	1514
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	2	2	2	9
Less Than $22000	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	4

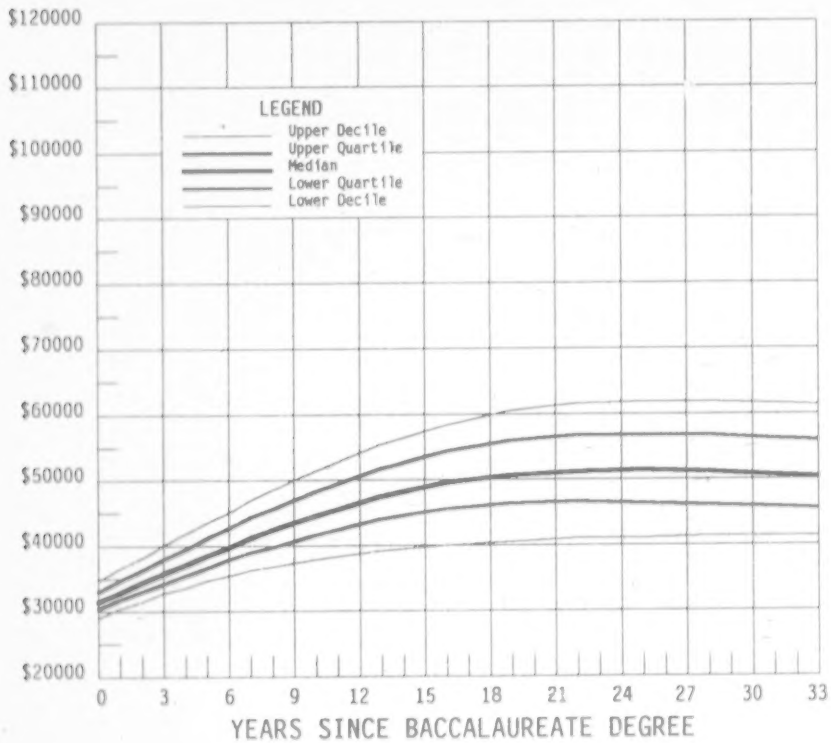
SALARY CURVES FOR ENGINEERS IN BASIC METALS SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: BASIC METALS, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	0	54250	55700	57200	60350	65250	70400	75750	81150	86500	91550	96150	104450	81700
Upper Quartile	0	0	0	0	0	0	49450	50700	52050	54900	59600	64550	69500	74150	78250	81550	84000	86650	69050
Median	0	0	0	0	0	0	44800	46200	47650	50450	54600	58550	62150	65400	68200	70550	72450	75300	59550
Lower Quartile	0	0	0	0	0	0	40200	41800	43350	46450	50800	54550	57550	59850	61400	62400	62950	63300	51700
Lower Decile	0	0	0	0	0	0	38900	39850	40800	42650	45300	47800	50050	52050	53850	55300	56500	58350	43550
Mean	0	0	0	0	0	0	45300	46750	48250	51200	55700	60000	64100	67900	71250	74150	76550	80350	62400
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	0	49850	59000	57800	59850	66000	70400	77700	78900	84400	92000	89750	110850	81700
Upper Quartile	0	0	0	0	0	0	47400	53750	49850	55800	59700	64250	68600	74150	80150	81500	79000	89400	69050
Median	0	0	0	0	0	0	42100	46250	46600	51400	55750	59150	61750	63750	67000	70650	68650	79350	59550
Lower Quartile	0	0	0	0	0	0	40050	42300	41400	46250	53050	54950	56650	58150	61000	61650	63150	63250	51700
Lower Decile	0	0	0	0	0	0	38800	40250	38800	42400	47400	48400	49300	50300	53100	53600	58950	57700	43550
Mean	0	0	0	0	0	0	43300	48550	47300	51250	56800	59500	63900	68800	69900	74100	74350	81350	62400
Supporting Data																			
Total Number	1	2	3	4	1	8	11	15	21	63	65	54	73	41	51	42	42	37	535
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	2	2	2	9
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

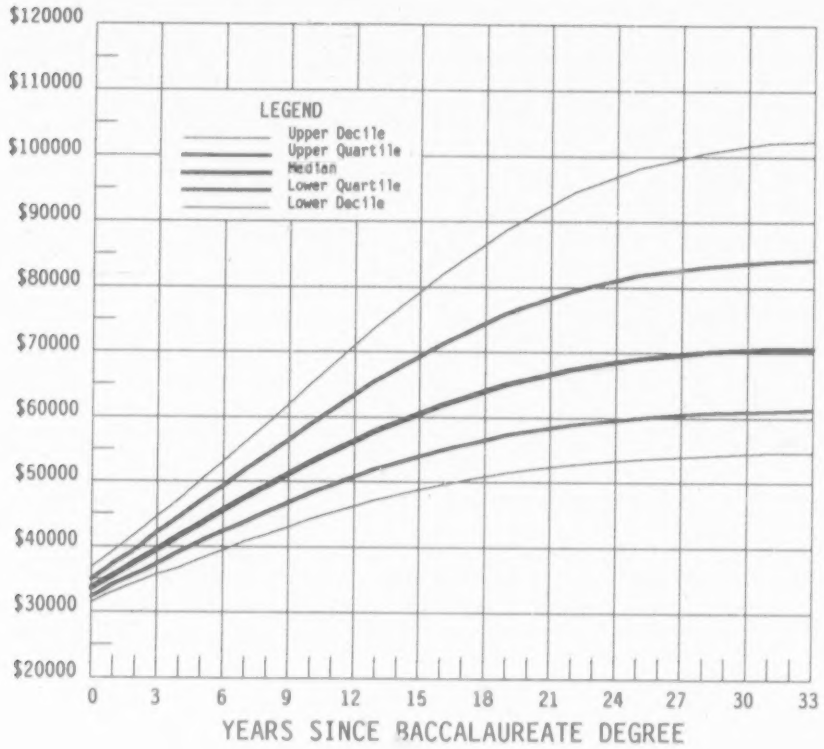
SALARY CURVES FOR ENGINEERS IN BASIC METALS
NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: BASIC METALS, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34800	36550	38250	40000	41750	43500	45200	46850	48500	51550	55500	58450	60450	61550	61950	61850	61500	60400	56450
Upper Quartile	33100	34650	36250	37900	39500	41050	42600	44150	45600	48300	51750	54300	55900	56750	56900	56700	56250	55150	50200
Median	31500	32900	34350	35750	37150	38500	39850	41150	42400	44650	47500	49500	50750	51300	51400	51150	50700	49700	43850
Lower Quartile	30400	31700	32950	34200	35400	36600	37750	38800	39850	41700	43950	45500	46300	46600	46500	46200	45750	44750	38400
Lower Decile	29200	30450	31600	32700	33700	34600	35400	36150	36850	38000	39250	40100	40650	40950	41150	41250	41300	41300	32900
Mean	31700	33100	34550	35950	37400	38750	40100	41400	42650	45000	47850	49900	51150	51700	51800	51550	51100	50100	44700
Raw (Unsmoothed) Statistics																			
Upper Decile	33400	35450	38000	42550	44000	43300	48200	50700	46950	50250	54800	55950	59450	61850	60600	67750	63050	62800	56450
Upper Quartile	32250	34350	35000	40100	41000	41000	44850	45600	45400	47400	51250	52850	55500	55250	56150	63000	57500	56650	50200
Median	31400	32700	33300	35850	37250	39400	42200	42400	43100	43700	47300	47850	49650	50000	52250	57800	53300	49100	43850
Lower Quartile	30700	31250	31800	34400	34800	37650	39350	39900	41150	41400	43100	44100	44200	45700	47600	52050	50400	43250	38400
Lower Decile	30300	30400	30450	32950	30000	35750	35700	38450	37200	38450	39900	38300	38900	40700	44350	45950	43200	38100	32900
Mean	31600	32800	33200	37050	37000	39550	42250	43250	42800	44300	47600	48000	49750	51000	52050	57400	53700	50100	44700
Supporting Data																			
Total Number	42	44	40	34	40	36	44	53	52	150	90	62	62	46	47	43	42	52	976
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	4

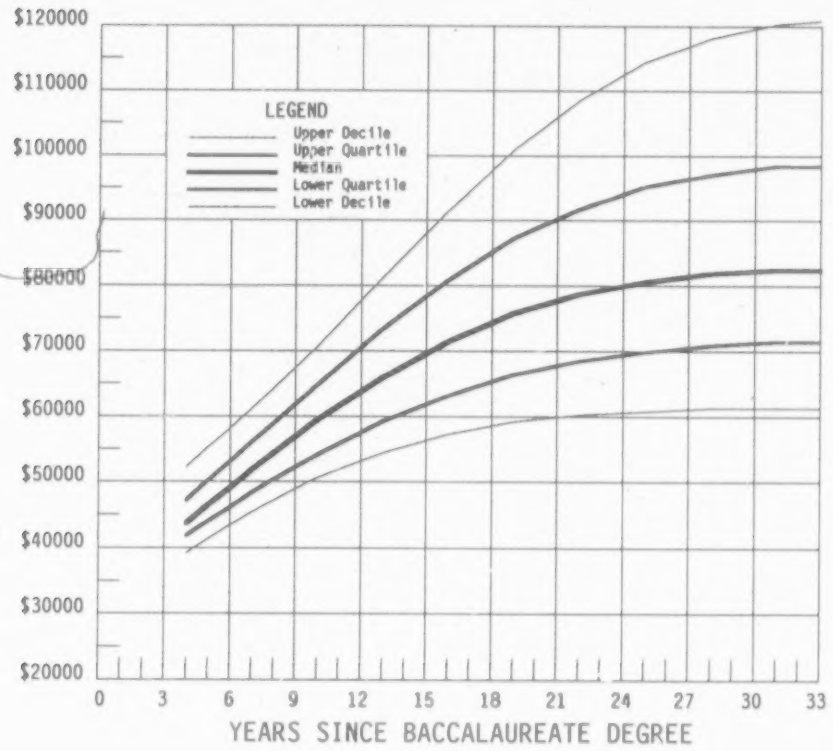
SALARY CURVES FOR ENGINEERS IN CHEMICALS, DRUGS & PLASTICS
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: CHEMICALS, DRUGS & PLASTICS

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	36750	39200	41800	44450	47200	50050	52950	55900	58900	64950	73850	81950	88850	94300	98150	100650	102100	103100	82600
Upper Quartile	35000	37250	39600	42000	44400	46850	49300	51750	54200	58950	65550	71250	75900	79350	81750	83250	84100	84700	68050
Median	33500	35500	37500	39500	41550	43550	45550	47550	49450	53100	57950	62000	65200	67500	69050	70050	70600	70950	56200
Lower Quartile	32400	34100	35800	37450	39100	40700	42300	43850	45350	48200	51900	54900	57250	58950	60050	60800	61150	61450	45800
Lower Decile	31600	32950	34300	35600	36900	38200	39500	40700	41900	44150	47100	49500	51350	52750	53650	54200	54550	54750	37400
Mean	34100	36000	37950	39900	41900	43950	46000	48000	50050	54000	59500	64300	68200	71150	73200	74500	75200	75750	59050
Raw (Unsmoothed) Statistics																			
Upper Decile	37050	39550	41850	43300	46000	49900	52600	55650	58950	65550	74400	81850	89750	96900	97350	99200	105750	98350	82600
Upper Quartile	35500	37400	39700	40650	42850	46300	49000	52300	54550	59350	65950	71650	76250	81050	79750	83500	86600	81650	68050
Median	33850	35750	37500	38450	39900	42800	45500	48550	50200	53350	57900	61650	65600	68750	68450	69050	72850	69350	56200
Lower Quartile	32750	34350	36000	36700	37700	39450	41800	44550	46000	48700	51600	54950	57600	59750	59800	60300	62100	60000	45800
Lower Decile	32100	32900	34300	35000	36200	37100	38800	40850	42750	44500	47200	49250	51400	53550	53700	54000	56300	52800	37400
Mean	34300	36250	38200	39050	40550	43450	45600	48500	50500	54400	59300	64000	68700	72750	72350	74200	77250	73500	59050
Supporting Data																			
Total Number	634	666	561	431	484	618	539	732	1120	2549	1486	1705	1385	1330	1322	1084	728	1278	18652
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	2	9	19	24	29	25	42	150
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

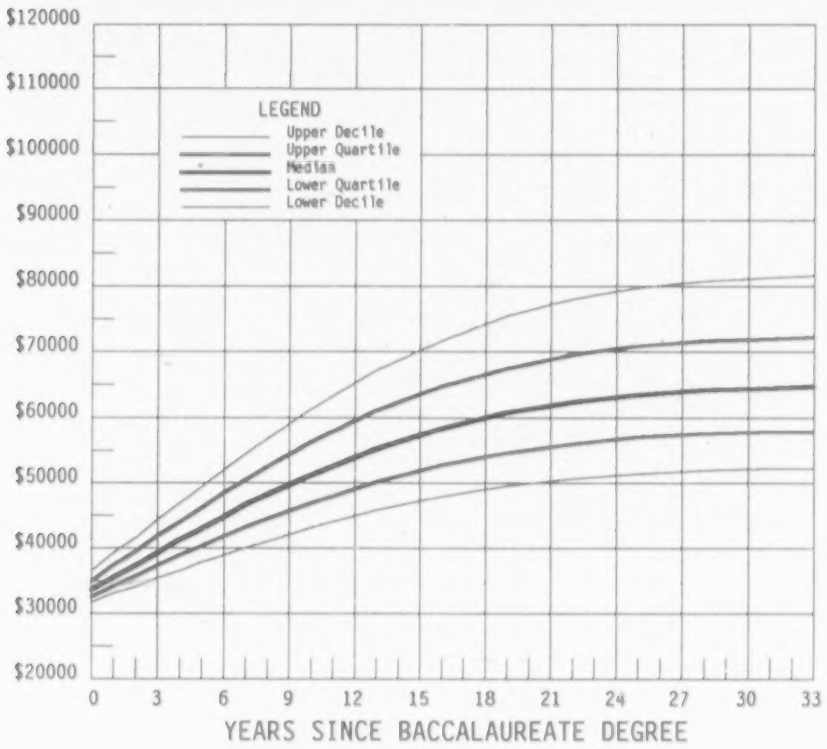
SALARY CURVES FOR ENGINEERS IN CHEMICALS, DRUGS & PLASTICS SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: CHEMICALS, DRUGS & PLASTICS, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	52400	55150	58050	61050	64200	70800	81150	91400	100750	108500	114300	118150	120400	122000	100500
Upper Quartile	0	0	0	0	47150	50050	53000	55950	58950	64900	73400	80900	87100	91850	95100	97150	98300	99050	84850
Median	0	0	0	0	43800	46450	49150	51800	54400	59350	66000	71450	75600	78600	80550	81750	82350	82750	71600
Lower Quartile	0	0	0	0	41950	44100	46250	48350	50350	54150	59200	63250	66350	68550	70000	70900	71350	71700	59850
Lower Decile	0	0	0	0	39250	41450	43500	45450	47300	50550	54450	57250	59100	60250	60900	61250	61400	61450	51250
Mean	0	0	0	0	45100	47600	50100	52600	55100	60050	67000	73150	78150	81900	84500	86100	87000	87600	74650
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	50600	59800	55300	59600	62400	72550	82250	88600	99500	111250	114650	118300	121450	121050	100500
Upper Quartile	0	0	0	0	46250	51400	53500	55450	58450	64600	74750	79750	87600	92650	95550	97350	99400	96800	84850
Median	0	0	0	0	43250	47150	49700	52100	54000	58750	66800	71700	75450	79150	79000	82900	85000	80750	71600
Lower Quartile	0	0	0	0	40700	44250	47000	49550	50150	53450	60350	62500	66700	69750	68900	70300	74100	70350	59850
Lower Decile	0	0	0	0	38350	41350	44850	46050	47300	49800	55200	56750	60000	61400	60700	60550	64600	58550	51250
Mean	0	0	0	0	44100	48900	50250	52650	54450	59850	67800	72400	78700	83050	83100	86250	89650	85750	74650
Supporting Data																			
Total Number	13	15	23	11	26	61	72	125	204	639	494	692	601	625	534	454	312	469	5370
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	2	9	18	22	28	24	37	140
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

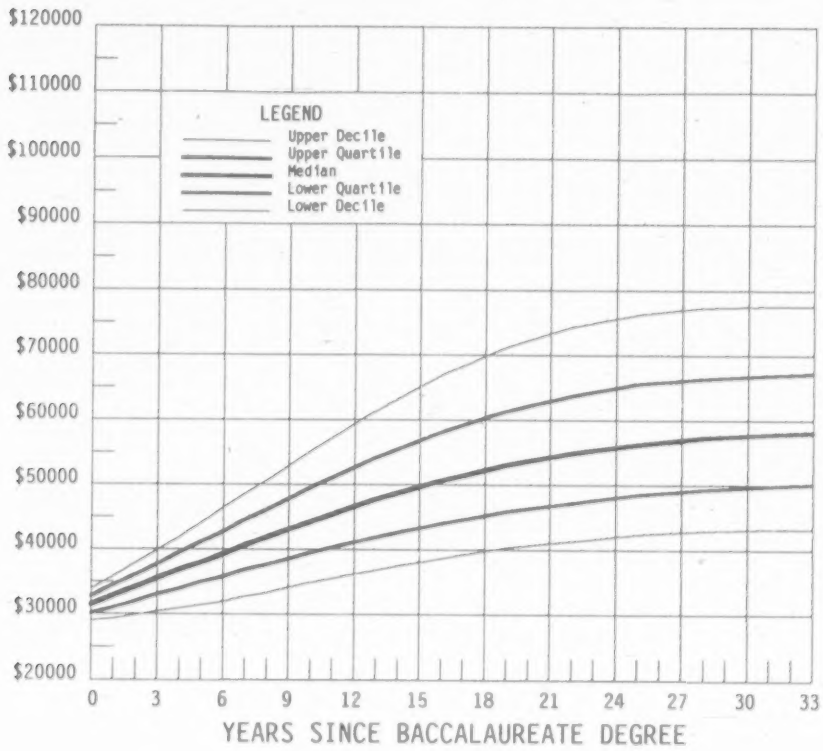
SALARY CURVES FOR ENGINEERS IN CHEMICALS, DRUGS & PLASTICS NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: CHEMICALS, DRUGS & PLASTICS, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	36600	39150	41700	44250	46850	49400	51900	54350	56750	61250	67100	71850	75450	78050	79750	80800	81400	81800	69800
Upper Quartile	35000	37300	39550	41800	44050	46250	48400	50450	52450	56150	60950	64700	67550	69550	70850	71650	72100	72400	60750
Median	33550	35500	37400	39300	41200	43050	44800	46550	48200	51300	55250	58400	60750	62450	63550	64250	64600	64900	51700
Lower Quartile	32550	34150	35700	37300	38800	40300	41750	43150	44500	46950	50200	52750	54700	56050	57000	57550	57900	58100	42100
Lower Decile	31750	33000	34200	35450	36650	37800	38950	40050	41100	43100	45750	47900	49550	50700	51500	52000	52300	52500	36250
Mean	34050	35950	37850	39700	41600	43400	45200	46950	48650	51800	55950	59300	61850	63650	64900	65650	66100	66400	52750
Raw (Unsmoothed) Statistics																			
Upper Decile	37050	39350	41150	43150	45700	49150	51500	54800	57550	62700	66550	69900	74300	77150	78800	80950	84900	82900	69800
Upper Quartile	35450	37300	39500	40550	42600	45800	48150	51550	53550	57200	59700	63600	66700	68850	71150	71400	74650	72700	60750
Median	33800	35700	37400	38400	39750	42350	44850	47600	49300	51900	54400	57550	59850	62350	63950	64450	65600	64950	51700
Lower Quartile	32750	34350	35950	36700	37600	39150	41350	43900	45400	47500	50050	51850	54300	56550	57400	57450	58650	57350	42100
Lower Decile	32100	32900	34250	34950	36150	36950	38550	40300	42100	43650	45300	47100	48850	50750	52300	52200	54150	51500	36250
Mean	34300	36150	37800	38900	40350	42850	44900	47650	49650	52600	55100	58250	61050	63650	65100	65500	67950	66400	52750
Supporting Data																			
Total Number	621	651	538	420	458	557	467	607	916	1910	992	1013	784	705	788	630	416	809	13282
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	5	10
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

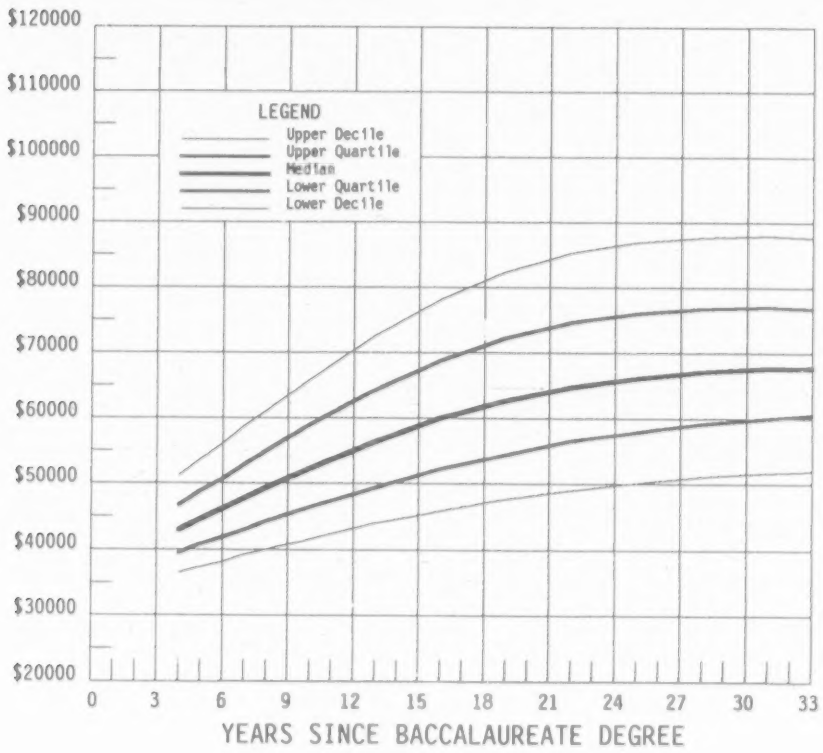
SALARY CURVES FOR ENGINEERS IN ELECTRIC MACHINERY/ELECTRONICS/COMPUTERS
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ELECTRIC MACHINERY/ELECTRONICS/COMPUTERS

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	33800	35750	37750	39850	41950	44100	46350	48550	50800	55200	61450	66900	71250	74350	76300	77300	77600	77300	66450
Upper Quartile	32750	34350	36000	37650	39350	41100	42800	44500	46200	49550	54200	58200	61450	63850	65500	66500	67050	67300	55150
Median	31450	32750	34050	35400	36700	38000	39300	40600	41900	44350	47750	50700	53150	55000	56400	57400	58000	58650	44550
Lower Quartile	30050	31000	32000	32950	33950	34900	35850	36800	37700	39450	41900	44000	45800	47300	48450	49300	49950	50800	37050
Lower Decile	29100	29450	29850	30350	30900	31500	32100	32750	33450	34850	36900	38750	40300	41450	42300	42850	43150	43350	32300
Mean	31350	32700	34050	35400	36800	38150	39550	40900	42250	44850	48500	51700	54350	56400	57950	59050	59750	60500	47450
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	33950	35650	37600	39700	42400	43950	46550	47800	50750	55500	61650	67750	70250	73000	77200	76850	77900	77450	66450
Upper Quartile	32650	33800	35500	37400	39700	41700	43300	44850	46450	49950	54200	57300	59250	63200	66[illegible]	66500	67050	68150	55150
Median	31250	32300	33400	35350	36950	38400	39600	41450	42400	45000	46700	49100	52250	55050	56450	57600	58100	59200	44550
Lower Quartile	30200	30800	31400	32750	34150	35050	35900	37050	38000	40450	40900	43000	45200	47050	47900	50400	50650	50750	37050
Lower Decile	28500	29500	29550	30350	31400	31800	32150	32950	33400	35400	35300	37500	39600	41400	42400	43850	44250	43650	32300
Mean	31650	32700	33600	35200	36950	38250	39550	40950	42300	45450	47950	51250	53600	56400	58550	59550	59800	60400	47450
---------- Supporting Data ----------																			
Total Number	498	750	824	1141	1330	1347	1182	1049	924	2486	1506	1253	1458	1170	1124	1104	1313	2297	22756
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	2	2	2	4	6	3	9	28
Less Than $22000	3	0	1	1	1	1	1	1	0	2	0	0	0	1	1	0	0	0	13

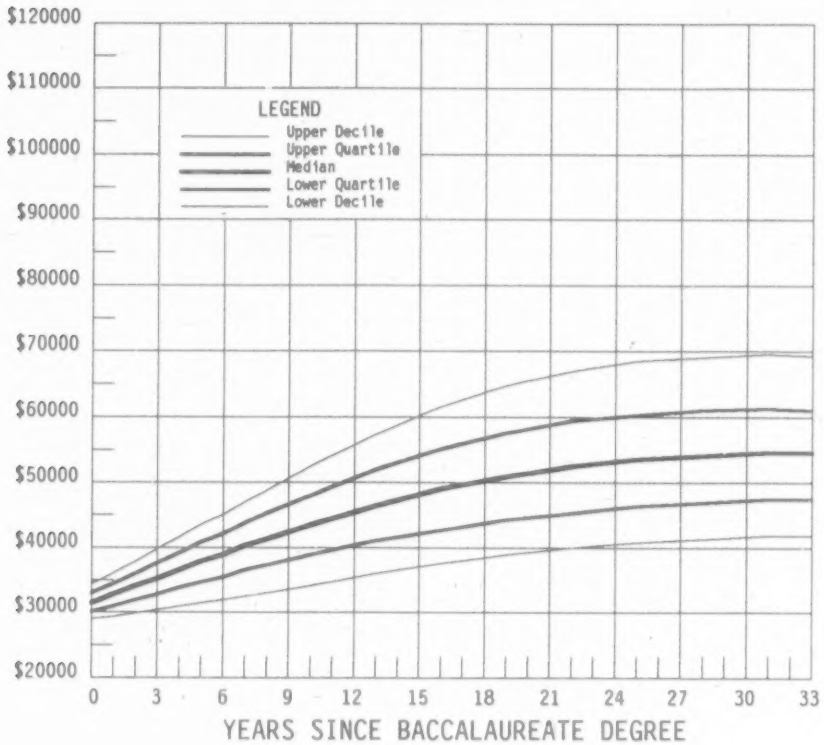
SALARY CURVES FOR ENGINEERS IN ELECTRIC MACHINERY/ELECTRONICS/COMPUTERS SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ELECTRIC MACHINERY/ELECTRONICS/COMPUTERS, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	0	0	0	0	51100	53600	56050	58550	61000	65850	72500	78100	82350	85300	87000	87750	87900	87200	83200
Upper Quartile	0	0	0	0	46600	48700	50750	52850	54850	58850	64250	68750	72250	74650	76100	76800	77000	76650	72100
Median	0	0	0	0	42950	44550	46150	47750	49300	52300	56400	59900	62700	64800	66200	67150	67650	68050	62450
Lower Quartile	0	0	0	0	39600	40750	41900	43050	44200	46350	49400	52150	54500	56450	58000	59200	60100	61350	52750
Lower Decile	0	0	0	0	36400	37350	38250	39100	39950	41600	43900	45950	47650	49100	50250	51200	51850	52850	45100
Mean	0	0	0	0	43450	45150	46800	48500	50100	53300	57650	61350	64300	66550	68100	69050	69600	70000	63750
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	0	0	0	0	53900	52700	58200	55650	57600	67150	73050	76950	83350	83500	88500	88250	86750	87450	83200
Upper Quartile	0	0	0	0	48500	48300	52450	52100	53700	58800	63850	68500	73500	73300	76950	77250	77600	76100	72100
Median	0	0	0	0	43550	44550	47450	46800	48200	52750	55950	59400	63550	63850	67650	69500	67550	67900	62450
Lower Quartile	0	0	0	0	41000	41100	41100	44100	43400	46300	49800	51450	54000	55850	59200	60450	60500	60650	52750
Lower Decile	0	0	0	0	36400	36900	37500	41500	38400	42050	44150	44500	47350	49700	50650	52250	51800	52450	45100
Mean	0	0	0	0	45150	44950	47600	48650	48650	53300	57400	61100	65050	65650	68900	69950	69350	69700	63750
---------- Supporting Data ----------																			
Total Number	1	8	7	18	24	33	57	71	88	363	309	296	333	334	339	336	423	724	3764
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	6	3	9	26
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2

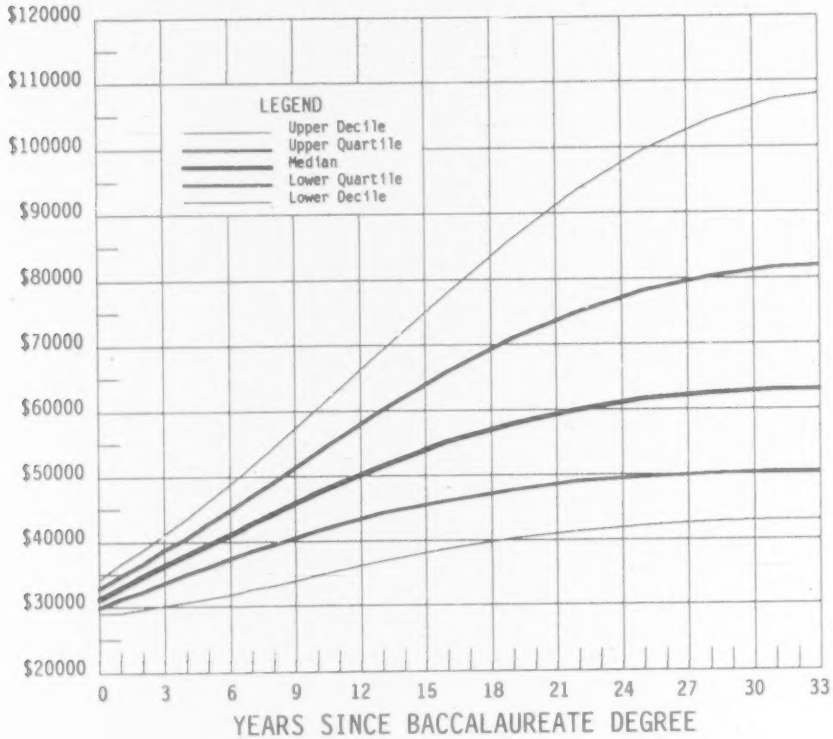
SALARY CURVES FOR ENGINEERS IN ELECTRIC MACHINERY/ELECTRONICS/COMPUTERS NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ELECTRIC MACHINERY/ELECTRONICS/COMPUTERS, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34350	36100	37900	39700	41500	43350	45200	47050	48900	52450	57350	61500	64700	67000	68400	69200	69500	69350	59300
Upper Quartile	33000	34500	36050	37600	39150	40700	42250	43750	45250	48100	51950	55150	57600	59350	60400	61000	61200	61100	50800
Median	31600	32850	34050	35300	36550	37750	39000	40150	41300	43550	46500	49050	51050	52550	53550	54250	54650	55000	42400
Lower Quartile	30100	31050	32000	32900	33800	34700	35550	36400	37250	38850	40950	42800	44300	45450	46350	47000	47450	48000	35950
Lower Decile	29050	29450	29900	30350	30850	31400	31950	32500	33100	34250	36000	37600	39000	40100	40900	41450	41800	42100	31750
Mean	31600	32800	34050	35300	36500	37700	38900	40100	41250	43500	46500	49100	51200	52800	53900	54700	55200	55700	44250
Raw (Unsmoothed) Statistics																			
Upper Decile	33950	35550	37500	39500	42050	43800	46000	46850	49400	53050	57200	61150	61550	66400	67550	68900	68950	71300	59300
Upper Quartile	32600	33750	35450	37350	39600	41500	42950	44350	45900	48550	51150	53800	55650	58600	59800	61000	60800	62750	50800
Median	31250	32250	33400	35300	36900	38300	39400	41100	41900	44200	44900	46750	50250	52950	53550	54700	54950	55500	42400
Lower Quartile	30200	30750	31350	32700	34100	34950	35700	36800	37600	39650	39600	41850	44050	45200	45650	47350	48100	48250	35950
Lower Decile	28500	29500	29550	30300	31350	31700	32000	32650	33000	34800	34450	36450	38450	39850	41500	42250	43000	42200	31750
Mean	31600	32550	33500	35050	36800	38050	39150	40400	41600	44150	45500	48200	50200	52700	54050	55000	55300	56100	44250
Supporting Data																			
Total Number	497	742	817	1123	1306	1314	1125	978	836	2123	1197	957	1125	836	785	768	890	1573	18992
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
Less Than $22000	3	0	1	1	1	1	1	1	0	2	0	0	0	0	0	0	0	0	11

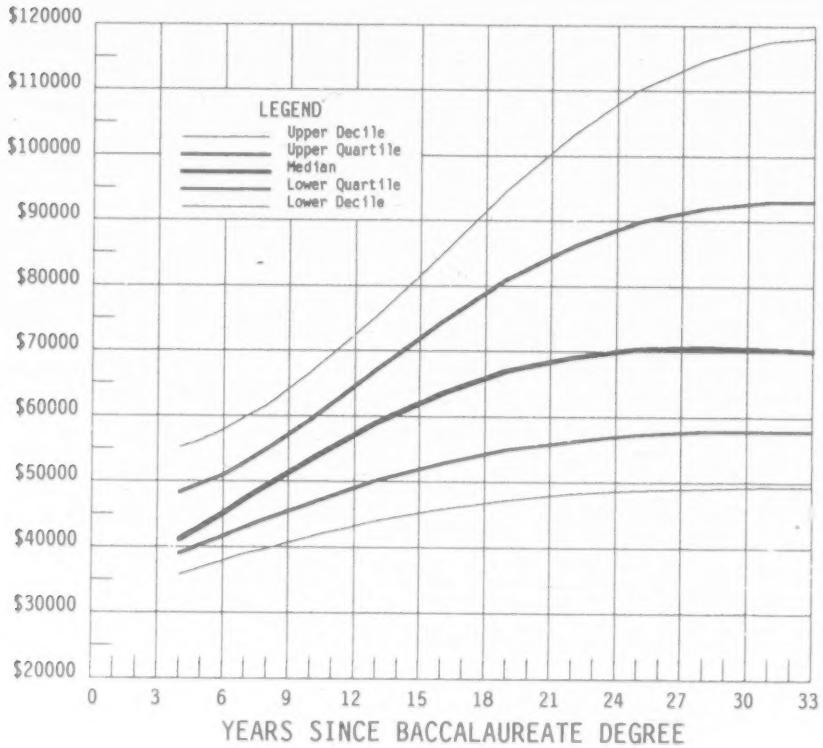
SALARY CURVES FOR ENGINEERS IN ELECTRICAL MACHINERY
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ELECTRICAL MACHINERY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34200	36400	38650	41050	43550	46150	48800	51550	54350	60150	69100	77900	86200	93500	99500	104050	107200	110250	74200
Upper Quartile	32700	34600	36550	38550	40600	42700	44850	47000	49150	53500	59900	65750	70850	75000	78150	80300	81600	82700	58300
Median	31300	32900	34550	36200	37850	39500	41100	42750	44300	47400	51600	55150	57950	60050	61500	62400	62900	63300	46250
Lower Quartile	29900	31150	32400	33650	34900	36100	37250	38400	39450	41500	44150	46250	47800	48950	49650	50100	50350	50500	37600
Lower Decile	28950	29200	29550	30000	30550	31100	31750	32450	33150	34550	36700	38600	40200	41350	42150	42650	42950	43100	32200
Mean	31550	33000	34500	36000	37600	39200	40850	42500	44200	47600	52550	57200	61250	64600	67100	68850	69950	70850	50700
Raw (Unsmoothed) Statistics																			
Upper Decile	33800	37050	39400	40600	44100	45050	48850	51250	54550	59700	68900	78700	91450	93150	97600	111000	98000	107050	74200
Upper Quartile	33150	34750	36950	38050	40250	42000	44200	47050	48550	53650	60150	67600	73550	78350	75900	79450	80000	76150	58300
Median	32100	32850	34150	36350	37400	38750	39800	43000	44050	47650	52050	56950	59800	63050	59450	59100	62200	59100	46250
Lower Quartile	30850	31150	31800	33400	34500	35750	35700	38800	39450	41850	44550	47250	49350	52200	47300	49350	48750	46950	37600
Lower Decile	30050	29950	30000	29600	29250	29150	29750	33000	32450	36250	37550	39750	40750	44850	40800	41500	41900	37700	32200
Mean	31950	33500	34350	35850	37200	38400	39950	42500	43950	47900	52700	58600	63450	67200	65450	68450	67000	66450	50700
Supporting Data																			
Total Number	161	178	150	206	205	253	202	210	257	654	470	455	349	236	213	156	164	219	4738
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	2	4	3	6	10	5	14	44
Less Than $22000	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	3

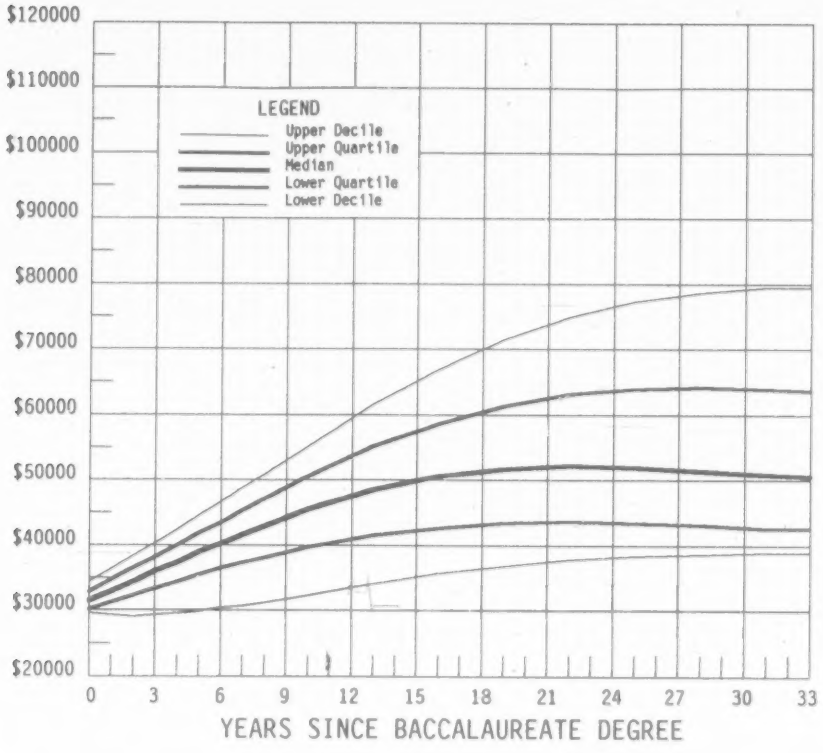
SALARY CURVES FOR ENGINEERS IN ELECTRICAL MACHINERY SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ELECTRICAL MACHINERY, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	0	0	0	0	55250	56400	57850	59650	61700	66550	75200	84900	94550	103200	110050	114800	117600	119650	92550
Upper Quartile	0	0	0	0	48300	49550	51050	52850	54850	59350	66850	74350	81050	86200	89800	91900	93000	93600	74400
Median	0	0	0	0	41000	43050	45150	47200	49300	53350	58900	63500	66900	69100	70300	70650	70500	69500	60350
Lower Quartile	0	0	0	0	38800	40200	41600	42950	44300	46800	50200	52900	55000	56400	57300	57750	57950	57850	50000
Lower Decile	0	0	0	0	35800	36850	37900	38850	39850	41650	44000	45850	47250	48250	48850	49200	49350	49300	43900
Mean	0	0	0	0	44400	45500	46800	48300	49900	53450	59150	64700	69600	73450	76100	77750	78600	79100	65150
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	0	0	0	0	53450	64000	59200	56000	59550	66050	76750	85000	99700	94250	107750	134000	109700	119700	92550
Upper Quartile	0	0	0	0	46750	51000	53750	52750	54800	58300	67300	74400	83750	86600	90000	96900	88750	88750	74400
Median	0	0	0	0	43100	44600	47000	48000	48100	52200	58350	63850	68600	70750	67500	76000	68350	68200	60350
Lower Quartile	0	0	0	0	39900	41600	42500	44550	43250	46100	49300	53850	56300	55700	57450	58000	57500	57350	50000
Lower Decile	0	0	0	0	35400	38000	37050	42200	38500	41800	43000	45800	48300	49350	47350	50100	47700	49850	43900
Mean	0	0	0	0	43450	47100	48300	49000	49150	52750	58750	65650	72250	72700	74150	82600	75300	76800	65150
---------- Supporting Data ----------																			
Total Number	1	7	3	14	17	20	26	30	57	234	190	230	193	147	116	82	89	107	1563
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	2	4	2	4	10	4	9	35
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

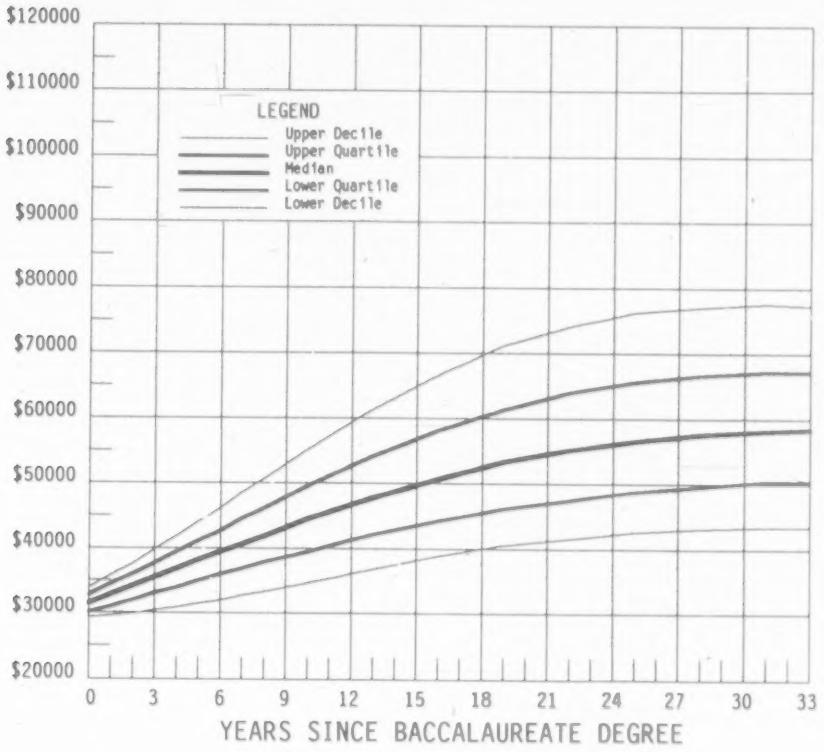
SALARY CURVES FOR ENGINEERS IN ELECTRICAL MACHINERY NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ELECTRICAL MACHINERY, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34450	36350	38300	40300	42400	44500	46650	48800	51000	55300	61500	67000	71550	74950	77300	78700	79400	79750	58800
Upper Quartile	32900	34600	36400	38150	39950	41800	43600	45400	47150	50550	55100	58750	61400	63100	63900	64150	64000	63150	49450
Median	31350	32850	34400	35900	37400	38900	40300	41700	43050	45500	48500	50550	51750	52150	52050	51600	51000	49650	41000
Lower Quartile	30000	31150	32250	33350	34400	35450	36400	37350	38200	39750	41600	42800	43450	43650	43500	43200	42800	41950	35000
Lower Decile	29550	29250	29200	29300	29550	29900	30300	30750	31300	32400	34050	35600	36850	37750	38350	38750	38900	39050	30750
Mean	31450	32800	34150	35550	36950	38300	39700	41000	42350	44850	48250	51000	53200	54700	55700	56250	56500	56550	43600
Raw (Unsmoothed) Statistics																			
Upper Decile	33800	36400	39000	40000	42900	43850	47250	49600	51500	55600	60750	67000	69600	72200	80500	70600	84400	83000	58800
Upper Quartile	33150	34550	36800	37750	39750	41350	43050	46150	46800	51100	55800	58700	61100	64900	61150	58350	65800	65700	49450
Median	32100	32750	34050	36150	37150	38350	39100	42250	43100	45350	49550	50500	51600	56500	49800	51000	52600	48400	41000
Lower Quartile	30800	31100	31750	33100	34250	35300	35150	38000	38700	40000	41500	42900	43400	45400	42550	42350	44300	41250	35000
Lower Decile	30050	29850	29900	29350	28400	28150	28850	31000	31000	34350	34900	37000	37050	39150	38250	37600	36500	34500	30750
Mean	31900	33000	34200	35400	36600	37650	38700	41400	42500	45200	48600	51400	52600	58050	55100	52800	57150	56550	43600
Supporting Data																			
Total Number	160	171	147	192	188	233	176	180	200	420	280	225	156	89	97	74	75	112	3175
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	1	5	9
Less Than $22000	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	3

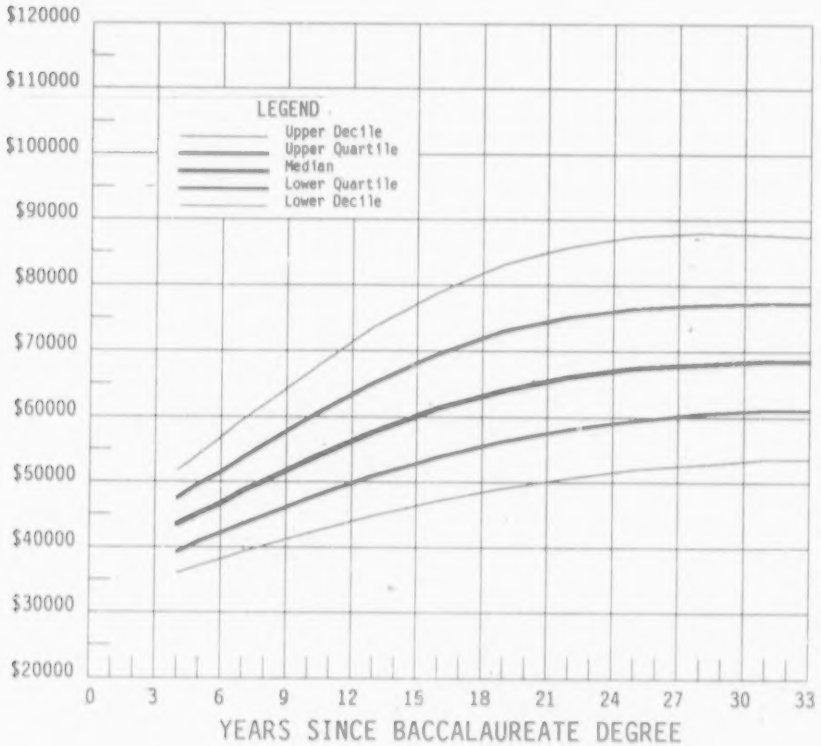
SALARY CURVES FOR ENGINEERS IN ELECTRONIC EQUIPMENT
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ELECTRONIC EQUIPMENT

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	33750	35700	37700	39750	41850	44050	46250	48450	50650	55100	61300	66750	71100	74200	76150	77150	77500	77150	66400
Upper Quartile	32700	34350	35950	37650	39350	41050	42800	44500	46200	49550	54200	58700	61450	63900	65550	66600	67150	67450	55250
Median	31450	32750	34100	35400	36700	38050	39350	40650	41950	44400	47850	50800	53250	55150	56550	57550	58150	58800	44600
Lower Quartile	30050	31050	32000	33000	34000	34950	35900	36850	37750	39550	42000	44200	46050	47550	48750	49650	50300	51200	37050
Lower Decile	29300	29550	29900	30350	30900	31450	32050	32700	33400	34800	36900	38850	40450	41700	42600	43200	43500	43700	32300
Mean	31350	32650	34000	35400	36750	38150	39500	40850	42200	44850	48500	51700	54350	56450	58000	59100	59800	60600	47450
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	33900	35550	37500	39600	42200	43900	46500	47700	50700	55500	61700	67750	69650	72500	76600	76900	77900	77500	66400
Upper Quartile	32600	33750	35400	37400	39650	41700	43350	44850	46450	50000	54250	57300	58950	63150	65700	66650	67250	68400	55250
Median	31250	32250	33350	35350	36950	38450	39750	41500	42450	45100	46750	49250	52150	55050	56500	57700	58300	59450	44600
Lower Quartile	30250	30800	31350	32750	34150	35100	36050	37100	38050	40600	41050	43300	45200	47050	48200	50700	51050	51200	37050
Lower Decile	28650	29600	29550	30350	31400	31750	32250	33000	33350	35250	35250	37650	39800	41450	42650	44150	44600	44150	32300
Mean	31700	32600	33500	35100	36900	38200	39600	40950	42250	45500	48000	51300	53400	56250	58350	59700	59950	60600	47450
---------- Supporting Data ----------																			
Total Number	462	699	756	1062	1269	1281	1103	990	869	2315	1398	1138	1330	1077	1017	1033	1236	2188	21223
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	2	1	2	5	1	6	18
Less Than $22000	2	0	1	1	1	1	1	1	0	2	0	0	0	1	1	0	0	0	12

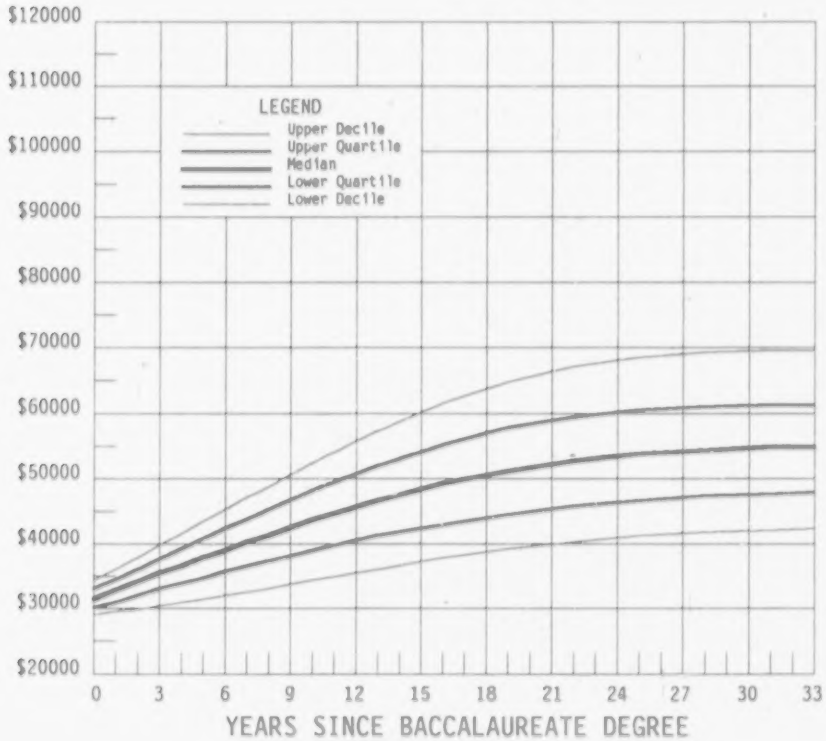
SALARY CURVES FOR ENGINEERS IN ELECTRONIC EQUIPMENT SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ELECTRONIC EQUIPMENT, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	51750	54250	56800	59350	61850	66750	73500	79050	83200	85900	87400	87900	87800	86750	83700
Upper Quartile	0	0	0	0	47400	49500	51600	53650	55700	59700	65100	69550	72950	75250	76600	77200	77350	76850	73150
Median	0	0	0	0	43400	45100	46800	48500	50150	53350	57700	61300	64100	66100	67350	68100	68400	68400	63750
Lower Quartile	0	0	0	0	39300	40700	42050	43450	44800	47400	50950	53950	56400	58250	59600	60500	61000	61500	54550
Lower Decile	0	0	0	0	35950	37000	38100	39150	40150	42150	44850	47200	49200	50750	52000	52850	53500	54300	46450
Mean	0	0	0	0	43750	45500	47300	49000	50750	54050	58600	62400	65400	67500	68900	69700	70050	70100	64850
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	55400	51400	58600	57200	58150	68600	73850	78650	84200	83700	87450	88550	86650	87350	83700
Upper Quartile	0	0	0	0	50000	47500	53750	53200	54300	59900	64950	69500	74100	73500	76900	77500	78150	76500	73150
Median	0	0	0	0	44000	44000	48050	47000	50100	54000	57350	60550	65050	65050	68600	67600	68350	68450	63750
Lower Quartile	0	0	0	0	39500	39500	40600	44300	44750	47950	51450	53050	55550	57800	60500	60950	61250	61300	54550
Lower Decile	0	0	0	0	36400	36650	37400	41500	38700	42550	44800	46300	47800	51600	53500	53350	53750	53750	46450
Mean	0	0	0	0	46400	43900	48000	49300	49550	54350	58400	62150	66150	66400	69350	70450	69900	70000	64850
Supporting Data																			
Total Number	1	5	4	11	12	26	41	54	67	287	254	234	263	274	281	302	378	671	3165
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	5	1	6	17
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2

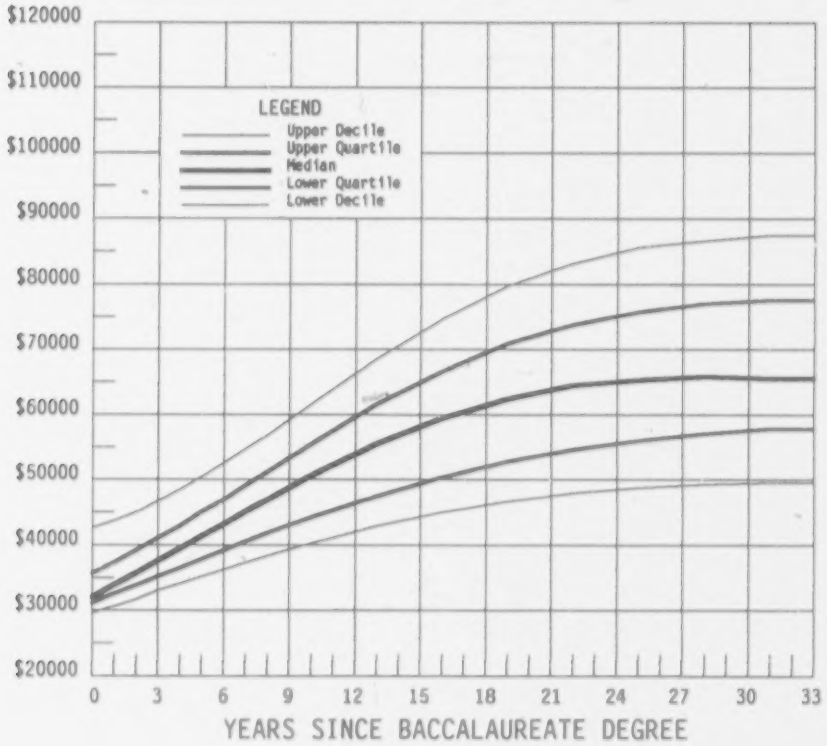
SALARY CURVES FOR ENGINEERS IN ELECTRONIC EQUIPMENT NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ELECTRONIC EQUIPMENT, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34350	36050	37850	39650	41500	43350	45250	47100	48900	52500	57400	61550	64800	67100	68500	69250	69550	69400	59400
Upper Quartile	32950	34500	36050	37600	39150	40700	42300	43800	45300	48200	52100	55300	57750	59450	60550	61100	61300	61150	51100
Median	31600	32850	34100	35350	36600	37850	39050	40250	41450	43700	46700	49250	51300	52800	53800	54500	54850	55150	42600
Lower Quartile	30100	31050	32000	32950	33850	34750	35650	36550	37400	39000	41200	43050	44600	45800	46700	47350	47850	48400	36050
Lower Decile	29150	29500	29900	30350	30850	31400	31950	32500	33100	34300	36100	37750	39200	40400	41250	41850	42250	42550	31800
Mean	31550	32800	34050	35300	36500	37750	38950	40150	41350	43600	46650	49250	51400	53000	54150	54950	55450	55900	44400
Raw (Unsmoothed) Statistics																			
Upper Decile	33900	35500	37450	39500	42000	43800	46050	46850	49450	53150	57350	61550	61300	66300	67200	69000	69200	71450	59400
Upper Quartile	32550	33750	35350	37350	39600	41600	43100	44400	45900	48650	51350	53950	55650	58550	59800	61050	61000	62850	51100
Median	31250	32250	33300	35300	36950	38400	39600	41200	42000	44350	45100	47000	50450	53050	53800	54800	55150	55800	42600
Lower Quartile	30250	30750	31300	32700	34100	35000	35900	36900	37700	39900	39850	42200	44250	45450	45950	47750	48450	48700	36050
Lower Decile	28650	29600	29500	30300	31350	31650	32100	32750	32950	34800	34500	36650	38750	40100	41750	42650	43450	42700	31800
Mean	31600	32500	33450	35000	36800	38100	39250	40500	41650	44200	45700	48450	50300	52800	54150	55250	55600	56400	44400
Supporting Data																			
Total Number	461	694	752	1051	1257	1255	1062	936	802	2028	1144	904	1067	803	736	731	858	1517	18058
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Less Than $22000	2	0	1	1	1	1	1	1	0	2	0	0	0	0	0	0	0	0	10

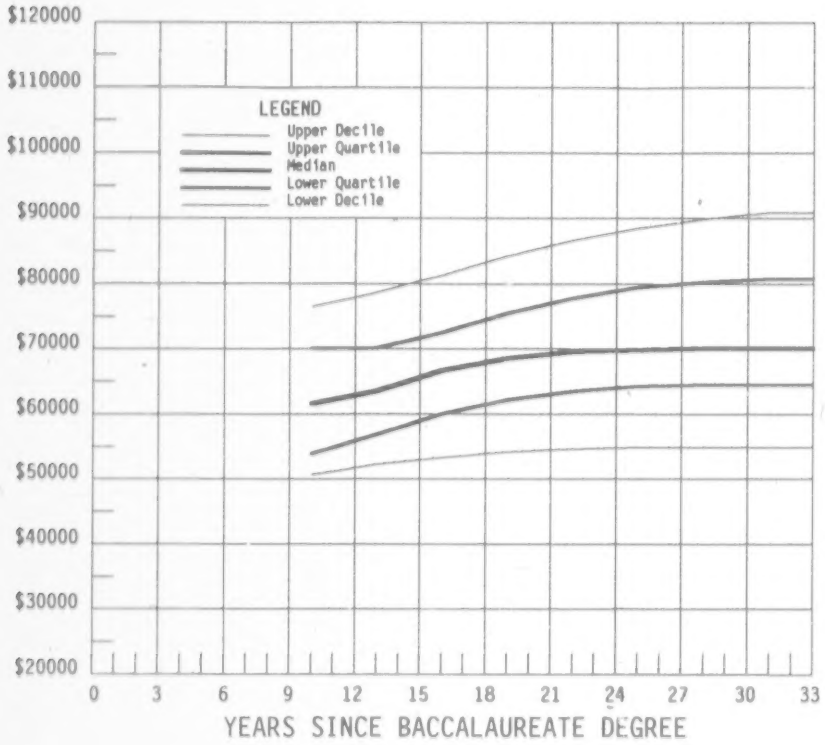
SALARY CURVES FOR ENGINEERS IN COMPUTERS
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: COMPUTERS

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	42650	43750	45100	46700	48500	50400	52500	54650	56900	61600	68550	74750	79700	83250	85500	86750	87400	87700	73450
Upper Quartile	35800	37450	39200	41050	42950	44950	47050	49100	51250	55450	61500	66750	70900	73900	75850	76950	77500	77800	63050
Median	32100	33850	35650	37500	39350	41250	43150	45050	46900	50550	55500	59550	62500	64450	65450	65800	65700	64850	49200
Lower Quartile	31150	32500	33850	35200	36550	37900	39200	40500	41800	44200	47550	50400	52750	54600	56000	57000	57750	58600	40600
Lower Decile	29600	30750	31850	32950	34100	35150	36250	37300	38300	40250	42850	45000	46700	47950	48800	49300	49600	49850	36050
Mean	33600	35400	37150	38950	40700	42500	44250	46000	47700	51000	55450	59250	62300	64600	66250	67300	67900	68350	52500
Raw (Unsmoothed) Statistics																			
Upper Decile	44150	50900	41900	45200	46900	48700	52700	52600	57050	67350	70650	75000	80350	83000	84600	84500	85250	77600	73450
Upper Quartile	38400	37150	37650	40600	42900	44400	47300	47600	50750	58250	60800	68500	72900	73350	77800	72000	75000	72000	63050
Median	31250	34250	35800	37800	39850	41950	42500	44100	47300	51400	51500	60350	62800	66000	68300	65150	70000	61350	49200
Lower Quartile	28500	32650	34100	35900	37550	38850	39400	40450	43250	44700	43250	47250	52800	58400	61150	61000	59650	53000	40600
Lower Decile	26600	31100	30800	34300	36000	36550	38050	36750	38100	39750	39200	43700	47500	49700	52000	55200	43700	47800	36050
Mean	33200	36500	36450	39350	41200	42500	44050	44400	47400	52300	53550	59400	63400	66350	69200	67600	67400	62450	52500
Supporting Data																			
Total Number	19	21	34	42	51	46	42	55	42	105	60	65	78	48	43	32	19	36	838
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

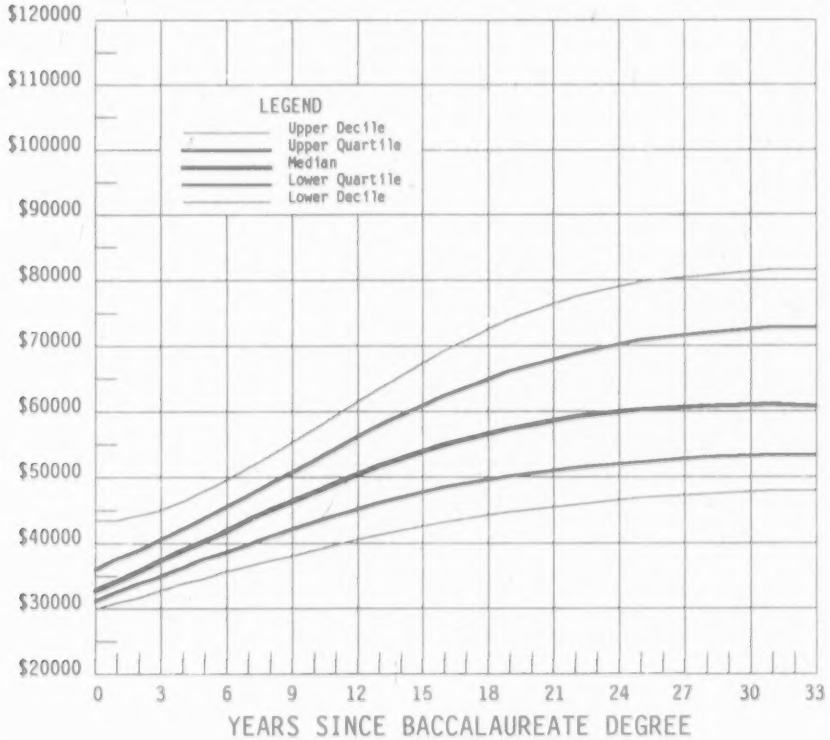
SALARY CURVES FOR ENGINEERS IN COMPUTERS SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: COMPUTERS, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	0	0	0	0	76600	78750	81450	84200	86650	88600	89950	90850	91550	84200
Upper Quartile	0	0	0	0	0	0	0	0	0	70200	70150	72650	75550	77900	79500	80400	80800	81000	74200
Median	0	0	0	0	0	0	0	0	0	61700	63550	66550	68600	69600	70000	70150	70200	70200	65650
Lower Quartile	0	0	0	0	0	0	0	0	0	53900	56800	59950	62250	63600	64200	64500	64550	64600	55050
Lower Decile	0	0	0	0	0	0	0	0	0	50750	52150	53450	54250	54650	54850	54900	54900	54900	49600
Mean	0	0	0	0	0	0	0	0	0	62950	64850	67400	69450	70800	71550	71900	72050	72100	66000
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	0	0	0	0	76000	82250	76800	86500	85000	94250	89000	87500	89000	84200
Upper Quartile	0	0	0	0	0	0	0	0	0	70650	69000	72500	76500	78000	82800	82500	79000	74000	74200
Median	0	0	0	0	0	0	0	0	0	62000	62000	67500	71350	69000	73000	67200	72000	63000	65650
Lower Quartile	0	0	0	0	0	0	0	0	0	54500	53750	64250	62350	61350	65000	64400	68650	60000	55050
Lower Decile	0	0	0	0	0	0	0	0	0	51000	50800	55400	53700	56000	52300	57600	60000	50600	49600
Mean	0	0	0	0	0	0	0	0	0	63300	63550	67750	71050	69700	73950	73050	71950	66150	66000
Supporting Data																			
Total Number	0	1	2	1	4	2	9	8	6	20	21	26	27	20	23	14	10	12	206
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

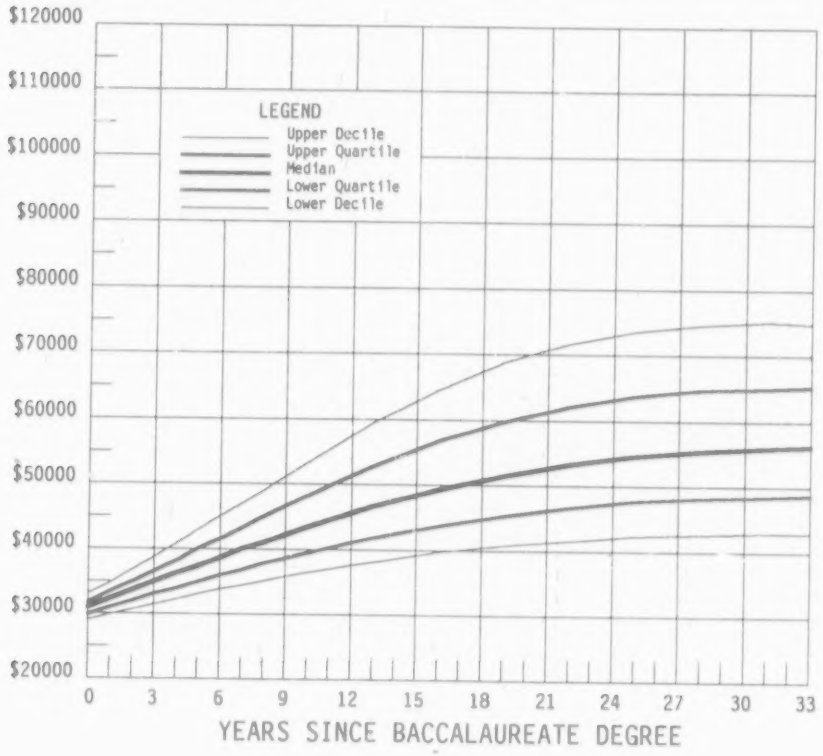
SALARY CURVES FOR ENGINEERS IN COMPUTERS NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: COMPUTERS, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	43350	43600	44250	45200	46450	47900	49550	51350	53250	57350	63600	69350	74100	77500	79650	80900	81500	81800	67250
Upper Quartile	36050	37500	38950	40550	42150	43850	45550	47300	49100	52600	57750	62300	66100	68900	70900	72100	72750	73200	55150
Median	32700	34200	35750	37300	38850	40400	41950	43500	45000	47850	51700	54950	57400	59100	60200	60750	60950	60850	45000
Lower Quartile	31300	32550	33800	35050	36250	37500	38700	39850	41000	43150	46050	48400	50250	51550	52400	52950	53200	53300	38850
Lower Decile	29950	30900	31850	32800	33750	34700	35600	36500	37400	39050	41300	43200	44750	45950	46900	47550	47950	48500	34900
Mean	33800	35300	36800	38300	39800	41300	42850	44300	45750	48600	52450	55700	58300	60200	61500	62350	62800	63100	48100
Raw (Unsmoothed) Statistics																			
Upper Decile	44150	50000	39800	45350	45700	47950	48050	51300	54200	60500	60200	72200	75100	81000	77350	74400	0	75450	67250
Upper Quartile	38400	36650	37350	40400	42400	43800	44900	46500	49650	55400	54250	60350	69000	70650	70000	69000	0	70650	55150
Median	31250	34000	35600	37750	39700	41750	40700	43300	46650	49100	45250	52250	58000	64650	64000	62850	0	58000	45000
Lower Quartile	28500	32550	34000	35800	37500	38650	38900	39600	42500	43250	41300	44900	50400	56000	56000	60300	0	49500	38850
Lower Decile	26600	31000	30400	34300	35800	36450	37300	36350	37200	38750	37900	42150	44150	43400	51500	54200	0	47700	34900
Mean	33200	35800	35600	39250	40300	42100	42150	43500	46300	49750	48200	53850	59350	63900	63800	63350	0	60600	48100
Supporting Data																			
Total Number	19	20	32	41	47	44	33	47	36	85	39	39	51	28	20	18	9	24	632
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

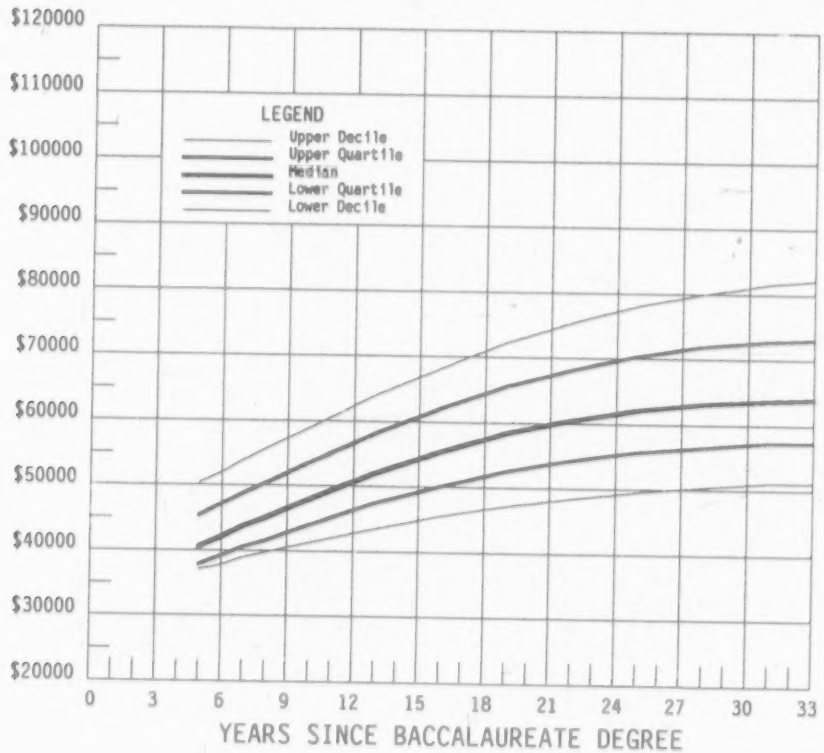
SALARY CURVES FOR ENGINEERS IN FABRICATED METAL PRODUCTS
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: FABRICATED METAL PRODUCTS

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	32950	34800	36700	38700	40750	42850	44950	47050	49200	53450	59400	64650	68800	71800	73700	74750	75100	74900	62250
Upper Quartile	31750	33350	34950	36600	38250	39950	41600	43300	45000	48250	52800	56700	59850	62200	63800	64750	65200	65450	51850
Median	30900	32200	33550	34850	36150	37400	38650	39900	41100	43400	46550	49250	51450	53200	54550	55500	56100	56650	42600
Lower Quartile	29950	30950	32000	33000	33950	34950	35900	36850	37750	39450	41800	43750	45400	46650	47600	48250	48650	49000	35650
Lower Decile	29200	29950	30750	31500	32250	33000	33750	34450	35150	36450	38200	39650	40850	41700	42300	42700	42900	43100	[illegible]
Mean	30950	32300	33650	35050	36400	37800	39200	40550	41900	44500	48050	51100	53600	55450	56800	57650	58150	585[illegible]	45250
Raw (Unsmoothed) Statistics																			
Upper Decile	32750	34150	35750	41850	40800	42850	44050	49850	48300	53800	59400	62350	67850	71250	72100	74300	78550	76000	62250
Upper Quartile	31700	33400	34300	37550	38550	39800	40800	44000	44850	48650	53100	55300	59250	62300	64700	64600	66350	65100	51850
Median	31100	32400	33000	34850	36250	36950	38150	40450	41150	43850	46650	47900	50950	56350	55600	54100	56900	55300	42600
Lower Quartile	30500	31150	31650	32750	33050	34400	34850	37350	38400	40450	41900	42800	44900	49050	48150	46250	50500	47450	35650
Lower Decile	30100	30350	30150	30500	30700	32650	32850	35100	35750	37750	38100	38750	41550	44050	43450	40100	42700	41600	31900
Mean	31200	32450	33000	35600	35650	37700	38350	41600	41800	45150	48250	49750	52600	57300	57400	55750	60350	58150	45250
Supporting Data																			
Total Number	100	116	95	77	91	113	109	112	94	248	177	133	143	101	89	91	78	110	2077
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
Less Than $22000	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	4

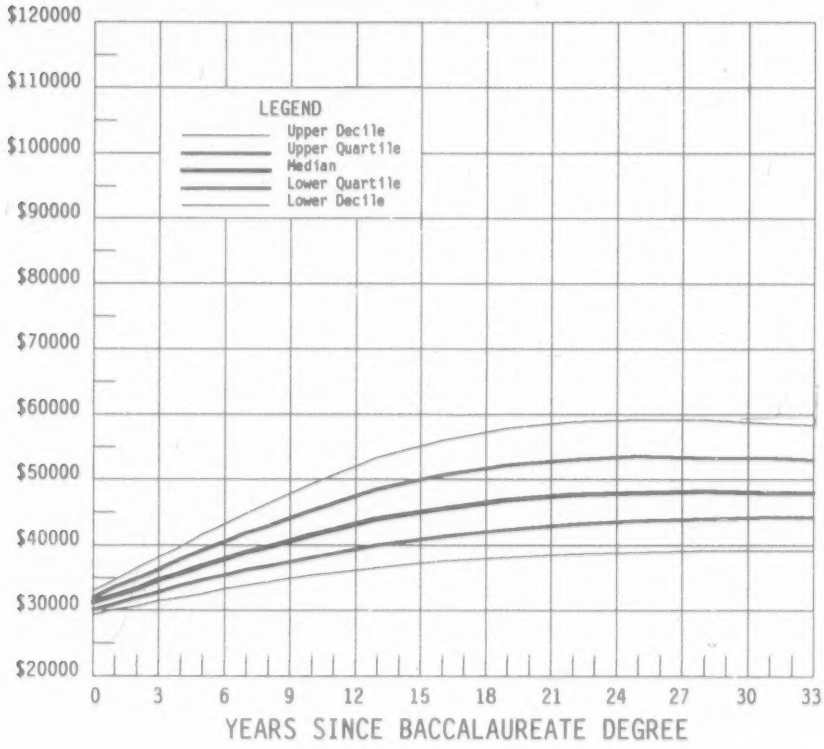
SALARY CURVES FOR ENGINEERS IN FABRICATED METAL PRODUCTS SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: FABRICATED METAL PRODUCTS, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	0	0	0	0	0	50350	52100	53850	55600	59050	63900	68350	72250	75500	78100	80100	81600	83600	73900
Upper Quartile	0	0	0	0	0	45400	47100	48750	50400	53600	58150	62200	65600	68300	70400	71900	72900	74100	63850
Median	0	0	0	0	0	40650	42150	43650	45150	48050	52050	55550	58400	60550	62150	63150	63800	64350	56000
Lower Quartile	0	0	0	0	0	38000	39250	40500	41700	44100	47350	50150	52500	54350	55700	56650	57250	57950	47500
Lower Decile	0	0	0	0	0	37050	37950	38850	39700	41350	43600	45600	47250	48600	49700	50500	51100	51900	42300
Mean	0	0	0	0	0	42450	43900	45300	46700	49500	53350	56850	59800	62250	64150	65550	66550	67850	57500
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	0	0	0	0	0	55100	44300	56800	57400	59700	64000	67900	71500	77600	75050	78900	83750	84100	73900
Upper Quartile	0	0	0	0	0	46600	42600	50750	50750	54650	58450	61000	65900	67000	68800	73400	75500	73400	63850
Median	0	0	0	0	0	42500	40500	45700	44300	46900	53250	55250	58450	60950	62000	63800	63250	64200	56000
Lower Quartile	0	0	0	0	0	37500	38900	42750	41750	43050	47950	49700	51950	56200	54800	58600	56200	57600	47500
Lower Decile	0	0	0	0	0	36200	37800	40400	39350	40500	44600	46050	46950	48800	49200	48600	51500	52800	42300
Mean	0	0	0	0	0	44100	40850	47200	46400	49250	54250	56650	59150	62550	63400	65000	68150	67600	57500
---------- Supporting Data ----------																			
Total Number	1	0	1	5	3	13	19	26	23	77	70	61	69	58	52	41	45	57	621
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

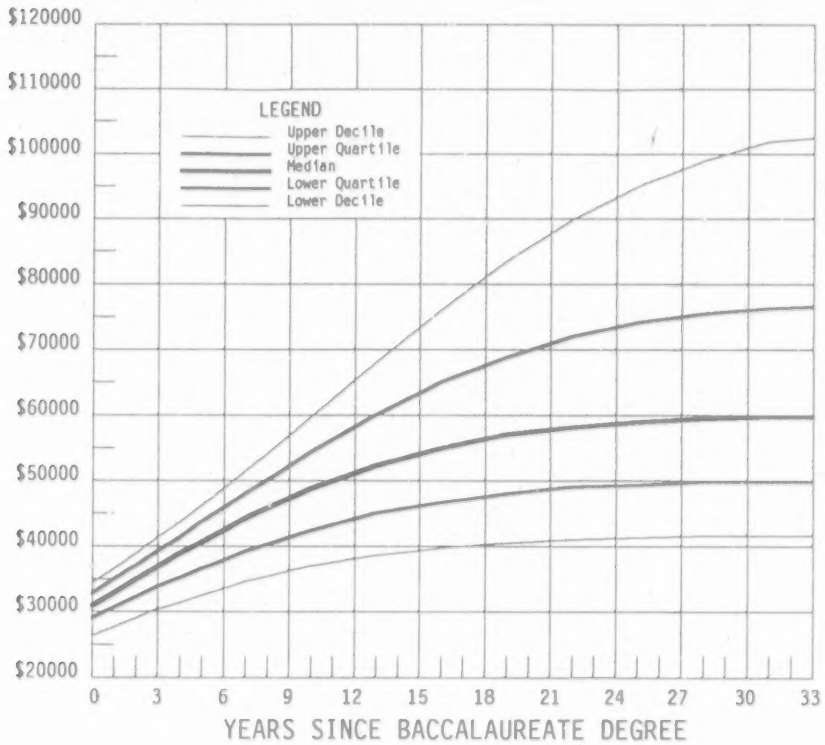
SALARY CURVES FOR ENGINEERS IN FABRICATED METAL PRODUCTS NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: FABRICATED METAL PRODUCTS, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33150	34800	36450	38150	39850	41550	43200	44850	46450	49400	53250	56100	58000	59000	59250	59100	58650	57500	50900
Upper Quartile	32100	33500	34900	36300	37750	39100	40450	41800	43050	45450	48450	50750	52250	53150	53500	53450	53250	52550	44750
Median	31150	32300	33450	34600	35700	36750	37800	38850	39800	41600	43900	45650	46850	47600	48000	48150	48100	47750	38850
Lower Quartile	30050	31000	31950	32850	33750	34550	35400	36150	36900	38250	39950	41350	42400	43150	43650	44000	44200	44300	33550
Lower Decile	29350	30050	30750	31400	32050	32650	33250	33800	34350	35350	36550	37500	38200	38650	38950	39100	39200	39250	31200
Mean	31100	32300	33500	34700	35900	37050	38150	39200	40250	42150	44550	46350	47550	48250	48550	48550	48450	47950	40050
Raw (Unsmoothed) Statistics																			
Upper Decile	32750	34150	35650	41300	40850	41000	44000	45200	46450	50000	52600	51750	56400	58450	61750	62650	59700	56950	50900
Upper Quartile	31750	33400	34250	37000	38550	39200	40250	42150	43600	46600	48200	46800	50250	54350	54600	53400	55250	53300	44750
Median	31100	32400	33000	34600	36200	36550	37150	39250	40150	42750	43400	43450	45650	49850	48300	47300	50750	47500	38850
Lower Quartile	30500	31150	31650	32600	33050	34100	34400	36600	37700	39450	39700	40600	42400	45650	43600	43500	43450	42950	33550
Lower Decile	30100	30350	30150	30350	30700	32550	32550	34800	34850	37000	36250	36750	38300	41200	40100	36000	39300	38200	31200
Mean	31200	32450	32850	34950	35650	36850	37850	39900	40300	43250	44350	43950	46450	50200	48950	48200	49700	47900	40050
Supporting Data																			
Total Number	99	116	94	72	88	100	90	86	71	171	107	72	74	43	37	50	33	53	1456
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	4

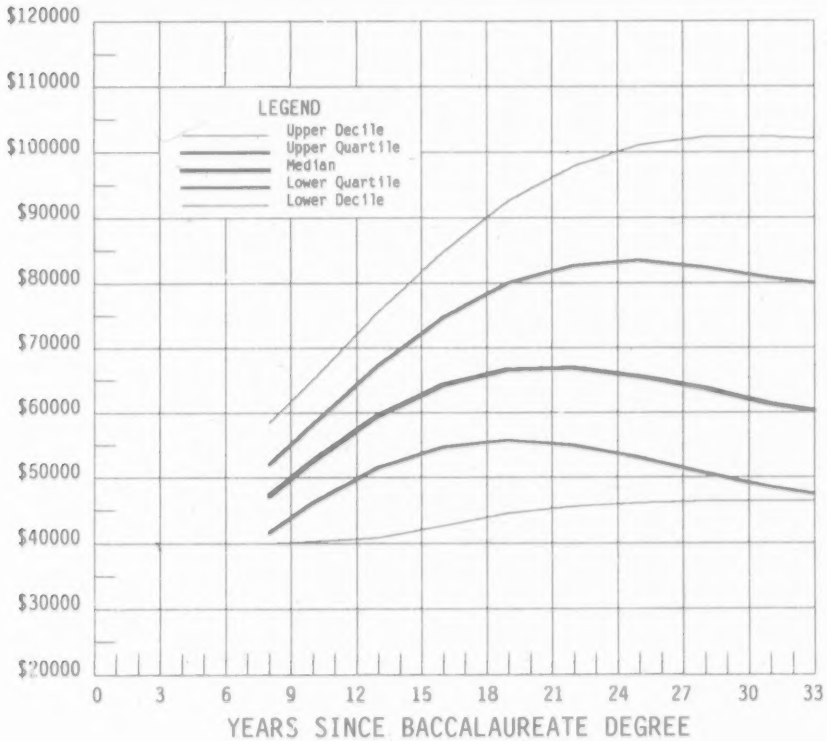
SALARY CURVES FOR ENGINEERS IN NON-ELECTRICAL MACHINERY
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: NON-ELECTRICAL MACHINERY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34350	36550	38850	41250	43700	46250	48850	51500	54200	59750	68050	76050	83400	89800	95000	98950	101750	104650	76600
Upper Quartile	32850	34950	37100	39250	41450	43700	45900	48050	50200	54350	60050	64950	68900	71900	74100	75550	76400	77100	61050
Median	30900	32900	34900	36850	38800	40650	42450	44150	45750	48700	52350	55050	57000	58250	59050	59500	59750	59900	49300
Lower Quartile	29000	30650	32200	33750	35250	36650	37950	39200	40400	42450	44950	46800	48050	48950	49450	49800	49950	50050	39300
Lower Decile	26300	27700	29050	30300	31500	32650	33650	34600	35500	36950	38650	39850	40600	41100	41400	41550	41650	41700	33150
Mean	30600	32400	34250	36150	38000	39850	41700	43550	45300	48750	53400	57350	60500	62900	64650	65800	66450	67000	52950
Raw (Unsmoothed) Statistics																			
Upper Decile	33700	37250	40350	41350	42650	45550	49000	51900	54050	59350	67000	76250	87300	91850	91600	96750	103000	108050	76600
Upper Quartile	33100	35150	38000	38950	39650	42850	45600	48800	50000	54100	60550	65950	70800	75550	71100	69000	79200	79800	61050
Median	32000	32550	36250	36300	35400	38900	41350	44950	45800	49300	53950	56900	58550	63650	58000	55450	59350	55800	49300
Lower Quartile	30150	30300	33350	33200	32250	35750	35150	39600	41900	43300	46600	46750	49050	51350	50300	47800	48900	48250	39300
Lower Decile	28100	26150	30500	28150	30500	33250	32150	36200	36800	37350	38750	39800	41650	42900	40300	42400	41300	40600	33150
Mean	31200	32150	35450	35750	35800	39500	40600	44400	45650	49100	53600	57450	62000	65950	63050	63250	67450	67650	52950
Supporting Data																			
Total Number	86	93	52	83	67	78	67	69	96	233	210	255	217	148	137	103	84	141	2212
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3	3	4	8	21
Less Than $22000	2	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9

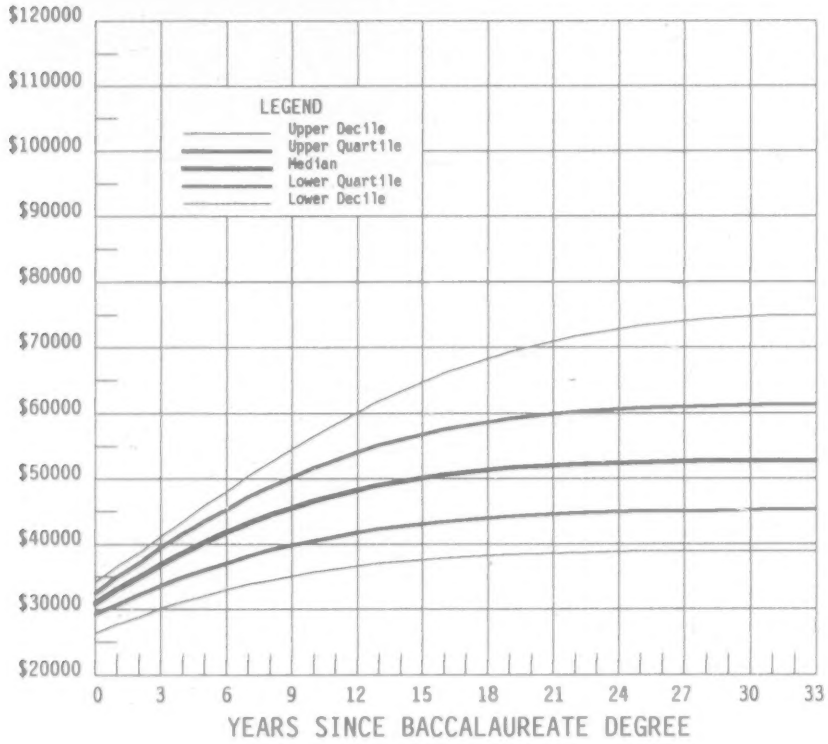
SALARY CURVES FOR ENGINEERS IN NON-ELECTRICAL MACHINERY SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: NON-ELECTRICAL MACHINERY, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	0	0	0	58350	65200	75400	84800	92450	97900	101100	102400	102500	100750	93350
Upper Quartile	0	0	0	0	0	0	0	0	52000	58250	67200	74750	80050	82800	83350	82500	80850	76950	75800
Median	0	0	0	0	0	0	0	0	47300	52500	59400	64300	66750	67000	65700	63650	61400	57100	62000
Lower Quartile	0	0	0	0	0	0	0	0	41650	46050	51400	54700	55750	54900	53000	50700	48450	44500	51250
Lower Decile	0	0	0	0	0	0	0	0	40000	40200	40700	42750	44550	45650	46200	46450	46500	46550	43500
Mean	0	0	0	0	0	0	0	0	47500	52750	59900	65600	69200	70700	70600	69450	67850	64350	66350
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	0	0	0	61200	65600	73600	83150	95350	95250	95650	114000	118000	115300	93350
Upper Quartile	0	0	0	0	0	0	0	0	54750	58900	65000	74000	79650	86400	77600	88350	95000	88450	75800
Median	0	0	0	0	0	0	0	0	49100	52700	59350	62850	64900	72250	64650	64000	64000	68850	62000
Lower Quartile	0	0	0	0	0	0	0	0	46250	47200	48500	53500	53550	59900	54800	50000	54500	51300	51250
Lower Decile	0	0	0	0	0	0	0	0	43550	41100	37800	44150	45700	52900	47900	43400	47600	47700	43500
Mean	0	0	0	0	0	0	0	0	50900	53550	57500	64350	68700	74300	68450	72800	76050	74500	66350
Supporting Data																			
Total Number	2	4	3	3	4	7	8	7	17	62	78	122	118	79	76	52	44	81	752
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	3	3	5	15
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

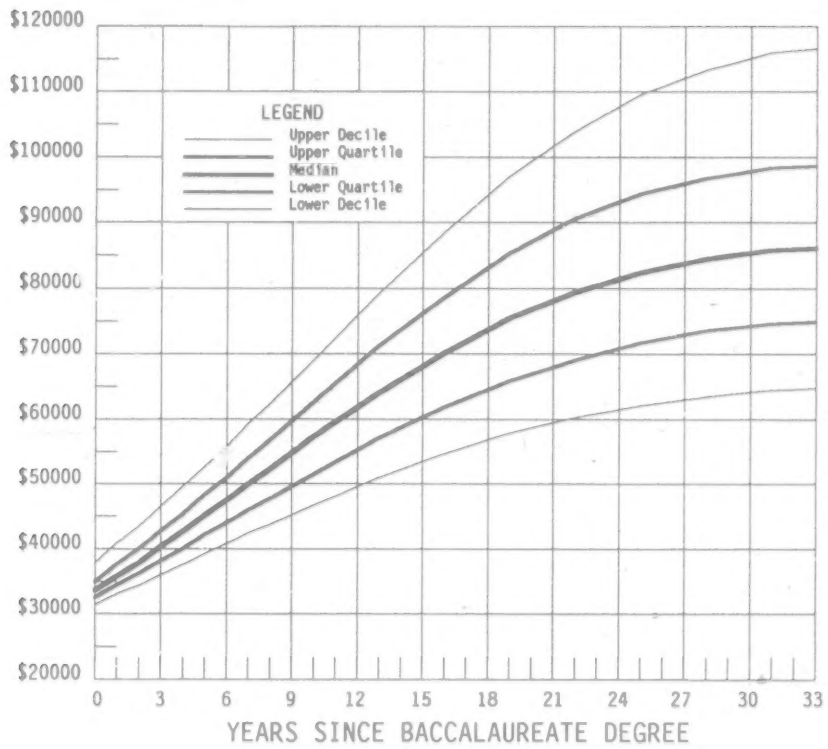
SALARY CURVES FOR ENGINEERS IN NON-ELECTRICAL MACHINERY NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: NON-ELECTRICAL MACHINERY, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34100	36450	38750	41100	43450	45800	48050	50300	52450	56500	61800	66100	69350	71750	73350	74350	74950	75350	61550
Upper Quartile	32650	34950	37200	39400	41500	43550	45450	47250	48900	51800	55200	57600	59200	60200	60750	61050	61200	61300	52550
Median	30950	32950	34950	36850	38600	40250	41800	43200	44450	46600	49050	50650	51650	52300	52650	52800	52900	52950	44150
Lower Quartile	29250	30750	32250	33600	34900	36100	37200	38200	39100	40650	42400	43550	44300	44800	45050	45200	45250	45250	36250
Lower Decile	26350	27650	28900	30050	31100	32100	32950	33750	34500	35700	37000	37850	38350	38650	38850	38950	38950	39000	32000
Mean	30450	32350	34250	36050	37800	39500	41150	42650	44100	46650	49750	52000	53600	54700	55350	55750	55950	56100	46000
Raw (Unsmoothed) Statistics																			
Upper Decile	33650	37100	40350	41000	41850	44800	47550	50900	52500	56900	62100	66550	70800	69200	75600	65200	84500	82500	61550
Upper Quartile	33000	35000	38100	38900	39450	42350	44400	48250	48900	52400	57350	58650	62150	62900	60400	56250	66500	55600	52550
Median	31900	32350	36350	36350	35400	38600	40800	44250	45100	48300	52050	50750	52750	53400	52500	50650	53750	49500	44150
Lower Quartile	30100	30250	33250	33500	32350	35400	33950	38750	40600	42150	45600	42800	45500	45050	42150	46050	46050	44250	36250
Lower Decile	28050	26000	30450	28000	30500	33050	29900	36050	35600	36700	39000	37400	37200	39850	38500	40000	41200	37000	32000
Mean	31000	32000	35450	35800	35650	38800	39800	43700	44550	47500	51300	51400	54050	56450	54950	52850	59650	57050	46000
Supporting Data																			
Total Number	84	90	51	80	63	71	59	62	76	171	133	135	102	71	62	47	43	60	1454
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	3	6
Less Than $22000	2	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9

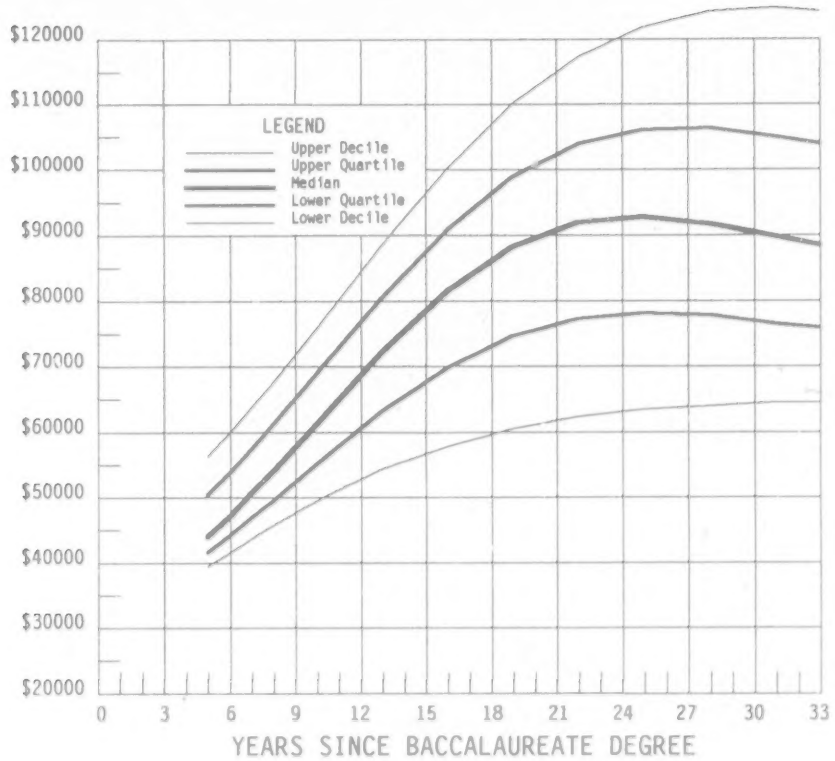
SALARY CURVES FOR ENGINEERS IN PETROLEUM
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: PETROLEUM

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	38000	40700	43500	46450	49500	52600	55800	59100	62400	69150	79200	88650	97100	104100	109550	113450	115950	118150	95650
Upper Quartile	35050	37500	40050	42700	45400	48200	51050	53900	56850	62650	71100	78800	85400	90550	94350	96850	98350	99450	81700
Median	33500	35700	37950	40300	42650	45050	47500	49900	52350	57200	64050	70200	75350	79450	82500	84500	85750	86800	65150
Lower Quartile	32550	34400	36250	38150	40050	42000	43950	45900	47800	51600	56950	61750	65850	69150	71700	73550	74750	75900	51600
Lower Decile	31400	32950	34600	36050	37650	39200	40750	42300	43850	46800	50950	54650	57750	60300	62200	63600	64500	65350	40250
Mean	34750	36850	39000	41250	43500	45850	48200	50550	52950	57700	64600	70950	76450	80950	84400	86850	88450	89800	68000
Raw (Unsmoothed) Statistics																			
Upper Decile	37450	40300	47000	46700	47300	56400	55050	58650	60650	69600	79400	88200	94100	110150	112350	115600	115400	122400	95650
Upper Quartile	35450	37650	40350	42100	43200	47800	51600	54400	55800	63250	70900	79350	86100	94150	94900	98200	97800	100600	81700
Median	34250	35700	37800	39600	39950	44200	48650	50800	52100	57700	63550	70500	76200	79950	83900	84100	90100	88900	65150
Lower Quartile	33000	34500	36050	37350	38100	40400	45400	47150	48250	52250	56450	58900	67150	68500	74850	74450	75300	81150	51600
Lower Decile	32200	33100	34600	35300	35000	35100	41300	43700	44700	47750	51250	51450	59150	57000	67350	66300	63900	68150	40250
Mean	35150	36850	40000	40550	40900	45200	48750	50950	52450	58250	64450	70150	77300	82500	86650	87250	88600	92950	68000
Supporting Data																			
Total Number	140	150	100	92	105	87	76	197	318	718	536	443	495	443	464	332	218	244	5127
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	7	11	7	8	8	20	62
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

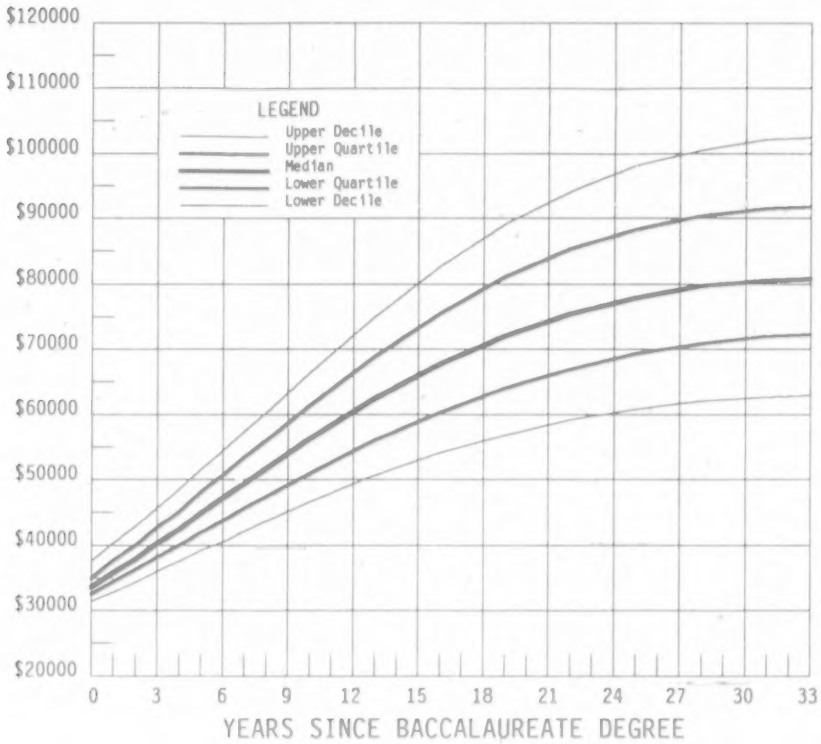
SALARY CURVES FOR ENGINEERS IN PETROLEUM SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: PETROLEUM, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	56300	60000	63850	67800	76000	88450	100200	110050	117350	121950	124200	124750	123250	116100
Upper Quartile	0	0	0	0	0	50300	53800	57450	61250	69050	80650	91050	99050	104100	106250	106300	105050	101050	96600
Median	0	0	0	0	0	44050	47300	50700	54200	61450	72150	81500	88250	91950	92800	91800	89800	84900	81550
Lower Quartile	0	0	0	0	0	41550	44200	46950	49700	55250	63150	69850	74600	77300	78150	77750	76650	73700	65250
Lower Decile	0	0	0	0	0	39450	41600	43750	45750	49550	54300	57900	60550	62300	63450	64100	64500	64700	52950
Mean	0	0	0	0	0	46050	49200	52450	55750	62550	72550	81400	88000	92050	93700	93600	92500	89000	83550
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	63200	0	62950	64250	76950	89200	94750	113650	120450	120050	123600	124100	146750	116100
Upper Quartile	0	0	0	0	0	48500	0	58400	60000	70000	82450	88100	96100	105100	105950	108450	109100	118100	96600
Median	0	0	0	0	0	44000	0	53600	55000	60000	73850	78350	88450	92400	92250	95500	96100	95950	81550
Lower Quartile	0	0	0	0	0	39500	0	50000	49600	54250	65950	68200	76650	71800	80950	82050	82000	84050	65250
Lower Decile	0	0	0	0	0	38150	0	47500	46800	46600	60950	53900	66250	55900	69550	69700	65600	71450	52950
Mean	0	0	0	0	0	46600	0	54550	55200	61800	74600	78100	89350	90950	94100	96800	96650	102300	83550
Supporting Data																			
Total Number	1	1	6	3	5	12	8	28	48	156	123	126	138	197	147	81	88	113	1263
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	7	11	7	7	8	20	61
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

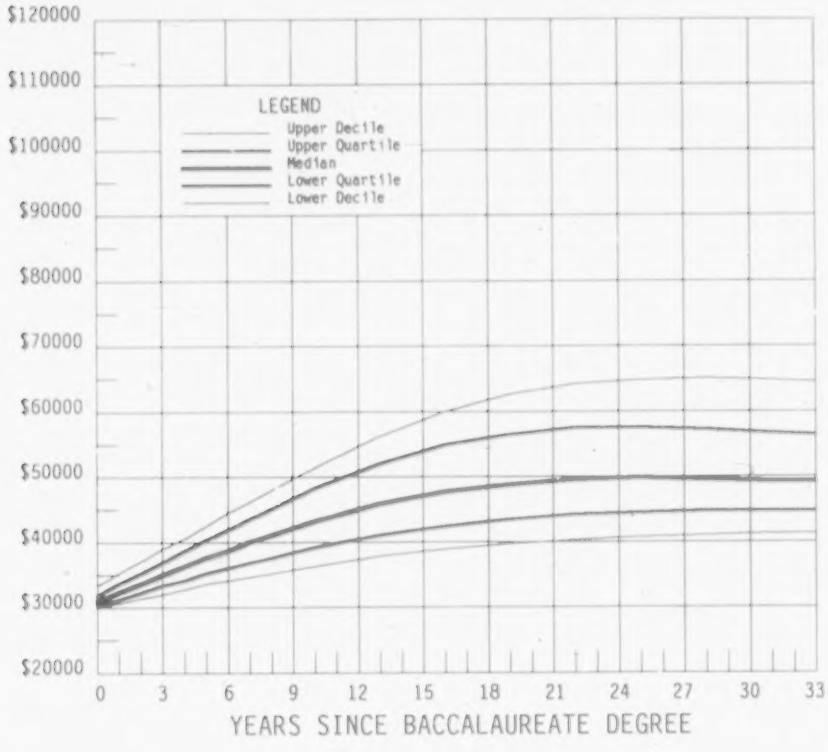
SALARY CURVES FOR ENGINEERS IN PETROLEUM NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: PETROLEUM, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	37600	40200	42900	45700	48550	51450	54450	57400	60400	66350	74900	82550	89050	94200	98050	100600	102200	103500	88300
Upper Quartile	35050	37500	40000	42600	45200	47900	50600	53300	56000	61350	68850	75550	81050	85300	88350	90350	91500	92400	75950
Median	33600	35750	37950	40200	42500	44800	47150	49450	51700	56150	62350	67700	72100	75550	78000	79650	80650	81450	60900
Lower Quartile	32650	34450	36250	38100	40000	41850	43700	45600	47400	51000	56000	60350	64050	67050	69250	70850	71900	72900	49300
Lower Decile	31400	32900	34450	36000	37550	39100	40650	42150	43650	46550	50550	54000	56900	59200	60900	62050	62800	63450	38100
Mean	34700	36750	38850	41000	43200	45400	47600	49800	52000	56300	62400	67850	72400	76050	78800	80700	81900	82950	62900
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	37450	40300	43700	45350	46650	55100	54300	57150	59300	67400	73500	82750	89150	92050	104400	112200	101600	99750	88300
Upper Quartile	35450	37650	40100	42000	42750	47800	51500	53950	55150	62550	67350	76600	82100	84350	91700	93650	93000	94450	75950
Median	34250	35700	37700	39550	39800	44250	48600	50450	51800	56950	61350	66650	72850	76450	81350	82200	81100	84750	60900
Lower Quartile	33000	34500	36000	37300	38000	41050	45100	46750	47950	52000	54800	57600	64300	66500	73450	73250	72650	80450	49300
Lower Decile	32200	33100	34550	35300	34850	34650	40850	43300	44400	47900	50650	50950	56800	58250	65650	65450	64050	64000	38100
Mean	35150	36850	39000	40400	40550	45050	48250	50400	51850	57350	61450	66950	72800	75650	82850	84200	83300	85050	62900
---------- Supporting Data ----------																			
Total Number	140	149	97	91	101	73	68	171	271	565	414	319	356	245	321	251	131	130	3865
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

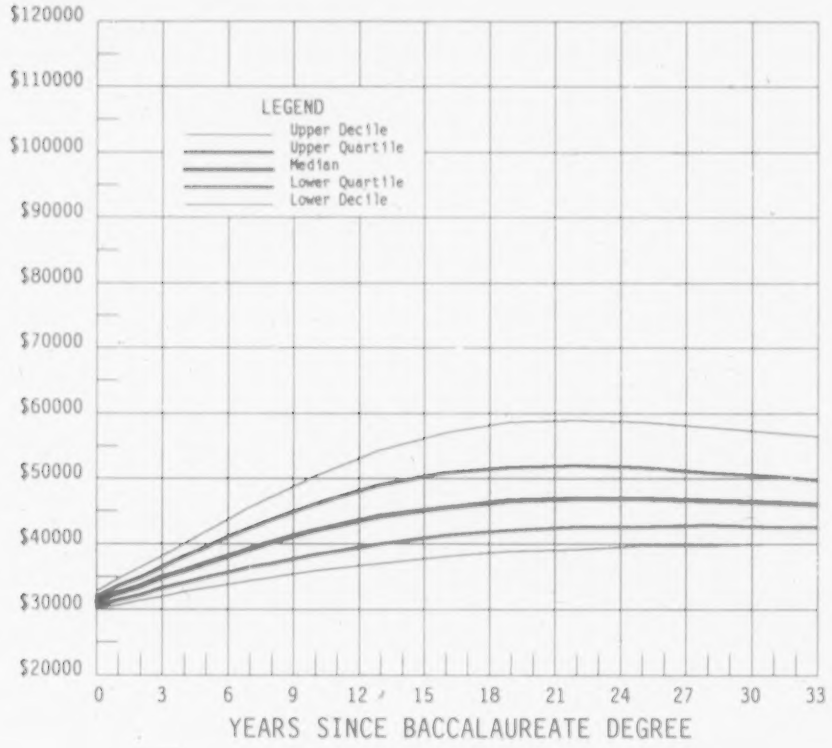
SALARY CURVES FOR ENGINEERS IN PRECISION INSTRUMENTS
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: PRECISION INSTRUMENTS

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	33350	35150	36950	38800	40650	42500	44400	46250	48050	51550	56200	59900	62550	64150	64850	64950	64700	63650	57050
Upper Quartile	31850	33500	35150	36850	38600	40250	41950	43600	45200	48200	52000	54850	56650	57550	57700	57400	56850	55500	50150
Median	31050	32350	33650	34950	36250	37500	38750	39900	41050	43100	45750	47650	48900	49550	49750	49650	49400	48650	43300
Lower Quartile	30350	31300	32300	33250	34200	35100	35950	36800	37600	39100	41000	42450	43500	44200	44600	44800	44850	44700	37700
Lower Decile	29850	30650	31400	32100	32800	33500	34100	34700	35300	36350	37750	38850	39700	40350	40800	41100	41300	41450	33750
Mean	31150	32500	33850	35200	36500	37800	39100	40350	41550	43800	46650	48900	50450	51400	51850	51950	51850	51300	44700
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	32800	33900	36000	37950	41600	42950	48650	47600	46100	52250	56100	56800	59900	67600	68550	60000	62000	67100	57050
Upper Quartile	31800	33450	34500	35950	39300	39950	44400	44900	43500	48250	51550	53850	56750	58850	59000	56000	56500	55600	50150
Median	31100	32650	32000	34800	36650	37750	39750	40250	39700	43150	46100	47000	47000	52400	51500	49000	46600	49100	43300
Lower Quartile	30450	31750	30750	33400	33500	36500	37150	36600	35400	39300	41800	40800	42700	46000	46500	44000	43250	44750	37700
Lower Decile	30050	30700	30000	32350	32450	34700	34900	34400	34100	36250	38350	37800	39200	41900	42600	41000	39500	40850	33750
Mean	31150	32550	32600	34950	36800	38250	40750	40750	39650	43850	46800	47700	50150	53600	53050	50150	50050	51900	44700
---------- Supporting Data ----------																			
Total Number	12	14	10	21	28	27	19	26	22	92	69	46	42	32	26	20	15	29	550
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

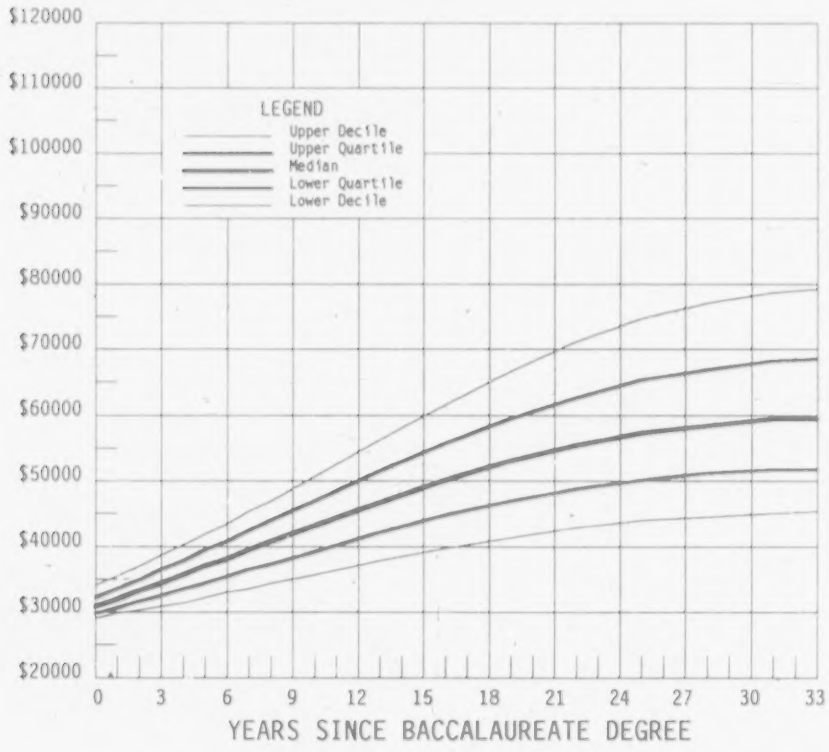
SALARY CURVES FOR ENGINEERS IN PRECISION INSTRUMENTS NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: PRECISION INSTRUMENTS, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	32750	34550	36400	38250	40100	41950	43800	45550	47300	50450	54400	57100	58600	59000	58650	57900	56950	54950	52050
Upper Quartile	32000	33500	35050	36600	38150	39600	41050	42450	43800	46200	49050	50900	51850	52050	51700	51050	50300	48800	46600
Median	31300	32500	33700	34900	36050	37200	38250	39300	40250	42050	44200	45650	46550	46950	46950	46750	46400	45650	41300
Lower Quartile	30500	31450	32350	33200	34050	34900	35700	36450	37150	38450	40050	41250	42050	42550	42800	42850	42800	42550	36550
Lower Decile	30050	30750	31400	32050	32700	33300	33900	34450	35000	35950	37150	38100	38800	39300	39650	39850	39950	40000	33100
Mean	31300	32550	33800	35050	36250	37400	38550	39650	40700	42600	44900	46550	47600	48050	48150	48000	47700	46900	42200
Raw (Unsmoothed) Statistics																			
Upper Decile	32800	33900	36000	37950	40700	42200	46100	47900	45400	50000	53600	54700	57600	66200	63000	58800	57800	52000	52050
Upper Quartile	31800	33450	34500	35950	38750	39700	41000	44000	42750	46450	49800	49800	48500	52250	54900	53000	47750	49400	46600
Median	31100	32650	32000	34800	36350	37650	39000	39500	39500	42350	45000	44300	44000	47500	49500	47000	45100	46400	41300
Lower Quartile	30450	31750	30750	33400	33400	36450	36650	36400	35300	38650	40800	39600	41400	43050	45100	43000	40750	43000	36550
Lower Decile	30050	30700	30000	32350	32400	34600	34600	34250	34050	36000	37400	37150	37600	40850	42500	39800	39100	39500	33100
Mean	31150	32550	32600	34950	36350	38100	39700	40400	39100	42700	45250	45350	45600	49600	51350	48950	46150	46600	42200
Supporting Data																			
Total Number	12	14	10	21	26	26	16	24	21	80	54	33	28	19	15	16	11	20	446
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

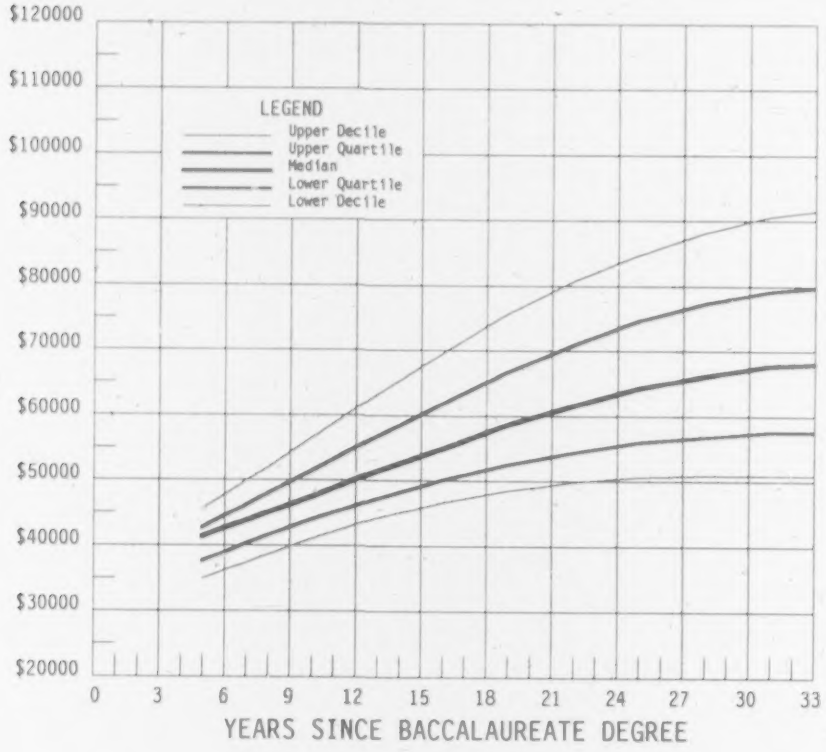
SALARY CURVES FOR ENGINEERS IN OTHER DURABLE GOODS MANUFACTURING
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: OTHER DURABLE GOODS MANUFACTURING

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	34100	35550	37000	38550	40150	41800	43500	45250	47050	50700	56300	61700	66750	71100	74550	77050	78750	80200	67800
Upper Quartile	32350	33650	35050	36450	37900	39400	40900	42400	43950	47000	51550	55800	59600	62800	65250	67050	68200	69200	58100
Median	30950	32100	33300	34500	35700	36950	38200	39450	40700	43200	46800	50100	53000	55400	57200	58500	59350	60100	48050
Lower Quartile	29950	30750	31650	32550	33500	34450	35400	36400	37350	39300	42150	44800	47000	48850	50200	51100	51700	52150	39000
Lower Decile	29200	29750	30350	30950	31600	32250	32950	33650	34350	35750	37800	39750	41450	42850	43900	44650	45150	45600	33550
Mean	31500	32550	33650	34750	35900	37100	38300	39550	40800	43350	47100	50700	53900	56600	58700	60200	61200	62050	49900
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	36900	35200	35950	37900	39800	42650	43800	44550	48050	50250	57150	61950	66050	71850	75900	77300	79050	78300	67800
Upper Quartile	33300	33650	34650	36150	37750	39900	40900	41400	44550	46850	52100	55550	58850	63950	66750	67800	68250	67400	58100
Median	31450	32300	33050	34200	35500	37200	38550	39100	40600	42900	47750	50000	51800	56700	57850	59650	59500	58550	48050
Lower Quartile	30400	30800	31650	32350	33150	34550	35350	36200	37550	39050	42450	45150	46400	49900	50700	51800	51500	50900	39000
Lower Decile	29200	29650	30650	30800	31900	32100	33000	33350	34600	35300	37700	40250	40550	44350	44950	45850	44900	43900	33550
Mean	32400	32600	33350	34400	35550	37350	38400	39300	41150	43050	47650	50850	53050	57700	59650	60850	61150	60600	49900
---------- Supporting Data ----------																			
Total Number	79	167	204	185	154	181	188	173	225	598	466	541	472	522	416	394	413	650	6028
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	1	3	7
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

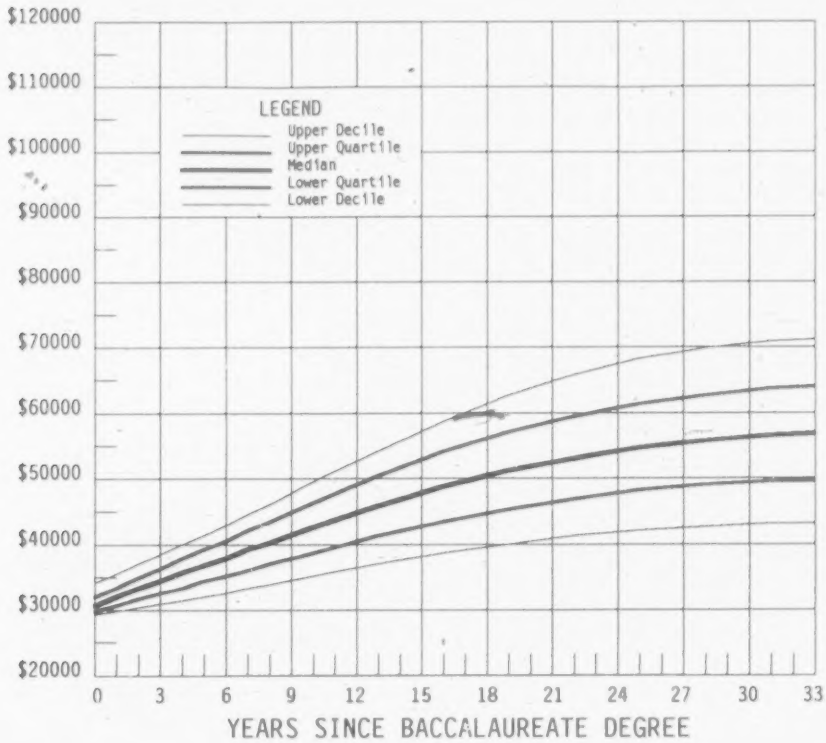
SALARY CURVES FOR ENGINEERS IN OTHER DURABLE GOODS MANUFACTURING SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: OTHER DURABLE GOODS MANUFACTURING, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	45500	47650	49800	52000	56500	63250	69700	75600	80700	84900	88200	90600	93750	82750
Upper Quartile	0	0	0	0	0	42800	44450	46200	47950	51450	56750	61950	66750	71000	74550	77300	79250	81350	70650
Median	0	0	0	0	0	41400	42600	43800	45050	47550	51350	55050	58550	61650	64200	66250	67650	69200	59350
Lower Quartile	0	0	0	0	0	37650	38950	40200	41500	43900	47250	50200	52600	54500	55900	56850	57500	58200	50700
Lower Decile	0	0	0	0	0	34900	36200	37450	38700	41100	44250	46750	48650	49900	50600	50900	50950	50650	45150
Mean	0	0	0	0	0	40650	42150	43700	45250	48300	52750	56850	60550	63700	66300	68350	69850	71950	62150
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	45200	46200	49500	57600	55700	63750	69700	75100	81250	85500	86050	90700	94450	82750
Upper Quartile	0	0	0	0	0	43000	43750	47250	49000	50250	59000	61050	65600	71450	76250	76800	79350	80800	70650
Median	0	0	0	0	0	41000	41500	45250	45800	47600	52450	54050	57250	62750	65100	67150	66000	69400	59350
Lower Quartile	0	0	0	0	0	37350	38900	37500	41000	45050	48950	49450	51050	55050	56250	57550	56950	58300	50700
Lower Decile	0	0	0	0	0	35200	35800	34500	37050	42400	46000	45950	47750	50700	49650	50600	51450	50800	45150
Mean	0	0	0	0	0	40400	41350	44050	46100	48250	53950	56200	59300	64600	67100	68000	69200	72200	62150
Supporting Data																			
Total Number	0	2	7	6	5	16	18	15	16	73	87	129	149	177	141	125	143	179	1288
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	1	3	7
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

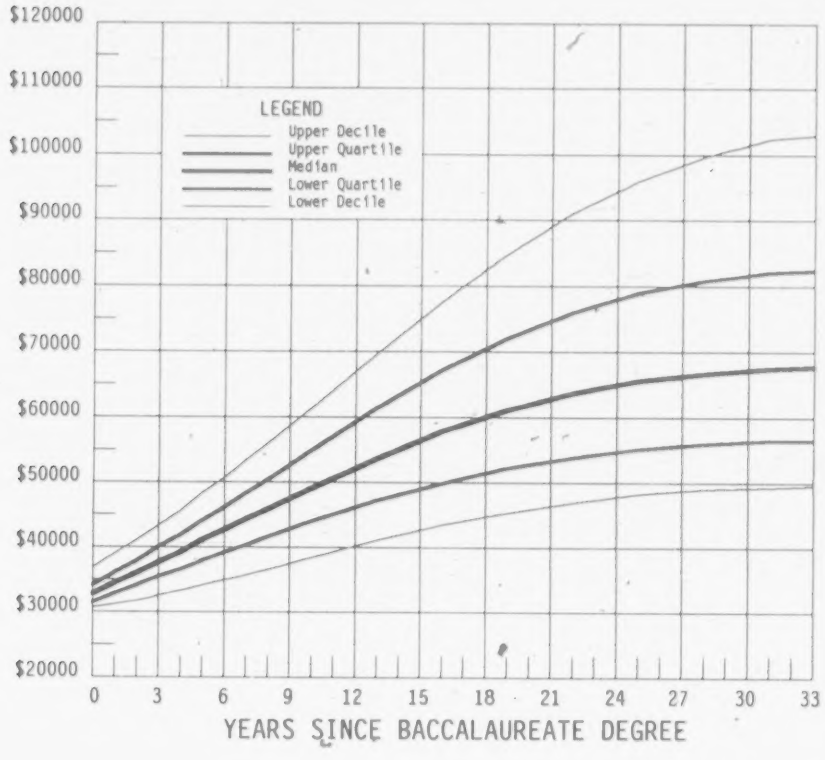
SALARY CURVES FOR ENGINEERS IN OTHER DURABLE GOODS MANUFACTURING NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: OTHER DURABLE GOODS MANUFACTURING, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	34200	35550	36950	38450	39950	41450	43050	44650	46250	49500	54250	58750	62650	65900	68300	70000	71050	71900	62650
Upper Quartile	32050	33450	34850	36300	37750	39200	40650	42100	43550	46400	50400	54000	57050	59500	61400	62800	63750	64850	54100
Median	30800	32000	33200	34400	35600	36800	38000	39200	40400	42650	45850	48700	51100	53100	54600	55750	56600	57600	45000
Lower Quartile	29950	30800	31650	32550	33400	34300	35200	36100	37000	38750	41250	43500	45450	47000	48200	49050	49600	50050	37400
Lower Decile	29300	29800	30350	30900	31450	32050	32650	33300	33900	35150	36950	38600	40000	41200	42050	42700	43100	43450	32850
Mean	31550	32550	33600	34650	35750	36850	37950	39100	40250	42500	45850	48850	51450	53550	55150	56200	56900	57400	46550
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	36900	35200	35850	37900	39750	41900	43450	43250	47500	49550	54700	59450	61100	66300	69550	71650	71400	69850	62650
Upper Quartile	33300	33600	34500	36200	37750	39500	40600	40850	43900	46000	50650	53850	56350	60800	62750	64700	65050	62650	54100
Median	31450	32250	33000	34150	35450	36950	38250	38950	40350	42200	46500	48800	49550	54200	55200	57550	57050	56350	45000
Lower Quartile	30400	30800	31600	32300	33100	34350	35100	36150	37450	38600	41300	44100	44050	47850	48950	50350	48900	49250	37400
Lower Decile	29200	29650	30600	30750	31850	31900	32800	33250	34000	34700	37100	39100	39250	41350	43250	44000	42500	42600	32850
Mean	32400	32600	33150	34350	35500	37050	38100	38850	40800	42350	46200	49150	50150	54200	55850	57550	56900	56250	46550
---------- Supporting Data ----------																			
Total Number	79	165	197	179	149	165	170	158	209	525	379	412	323	345	275	269	270	471	4740
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

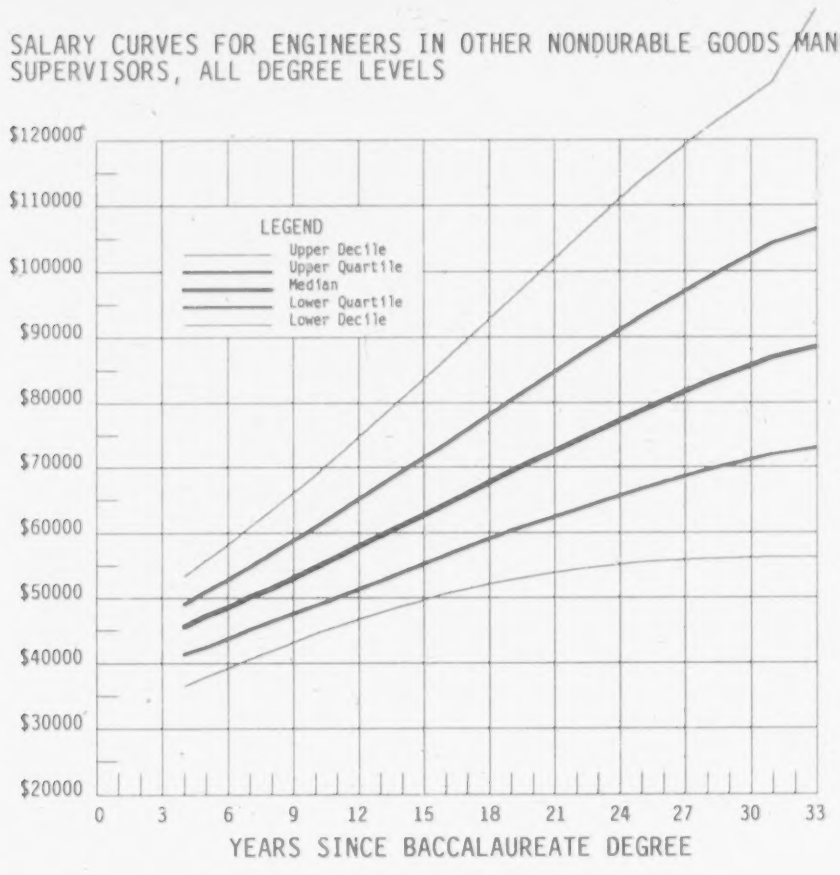
SALARY CURVES FOR ENGINEERS IN OTHER NONDURABLE GOODS MANUFACTURING
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: OTHER NONDURABLE GOODS MANUFACTURING

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	36700	38800	41000	43300	45700	48150	50650	53250	55950	61350	69600	77600	84900	91100	96050	99750	102300	105350	75650
Upper Quartile	34150	36000	37950	39900	41950	44050	46200	48350	50500	54900	61250	67100	72050	76050	78950	80900	82150	83250	60200
Median	32900	34450	36050	37650	39300	40950	42600	44300	45950	49150	53700	57750	61050	63650	65500	66750	67500	68200	48850
Lower Quartile	31550	32800	34100	35350	36650	37900	39200	40400	41650	44000	47200	49950	52200	53900	55150	55950	56500	57000	39200
Lower Decile	30550	31150	31800	32500	33250	34050	34900	35700	36600	38350	40950	43350	45350	47000	48150	48950	49400	49750	34050
Mean	32900	34500	36100	37750	39450	41150	42900	44650	46400	49900	54900	59550	63600	66950	69550	71500	72800	74450	52700
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	35900	39600	39150	44250	46500	48650	49550	52450	55200	63550	71500	80250	78950	90350	91250	84250	91500	117250	75650
Upper Quartile	34350	35850	37100	40150	40900	44950	45600	49750	50150	55500	62550	68600	69200	77000	76150	71400	75250	86250	60200
Median	33300	34000	35100	38150	38500	41500	41400	46600	45950	50200	54100	57350	58300	64650	66250	62500	61850	67800	48850
Lower Quartile	32500	32600	32550	36150	36100	38050	38150	41650	40900	44550	47850	51200	50100	53350	56800	52700	54400	54400	39200
Lower Decile	32050	31350	29000	34150	33100	33850	34000	35300	35400	39300	41850	44700	44100	47500	50500	45950	48600	45050	34050
Mean	33600	34800	34450	37850	39000	41300	41800	45350	46050	50950	55850	60350	61700	68300	70250	64150	65900	75000	52700
---------- Supporting Data ----------																			
Total Number	67	78	65	56	92	106	80	83	51	198	139	126	101	88	75	73	71	111	1670
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	2	3	3	0	0	8	17
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

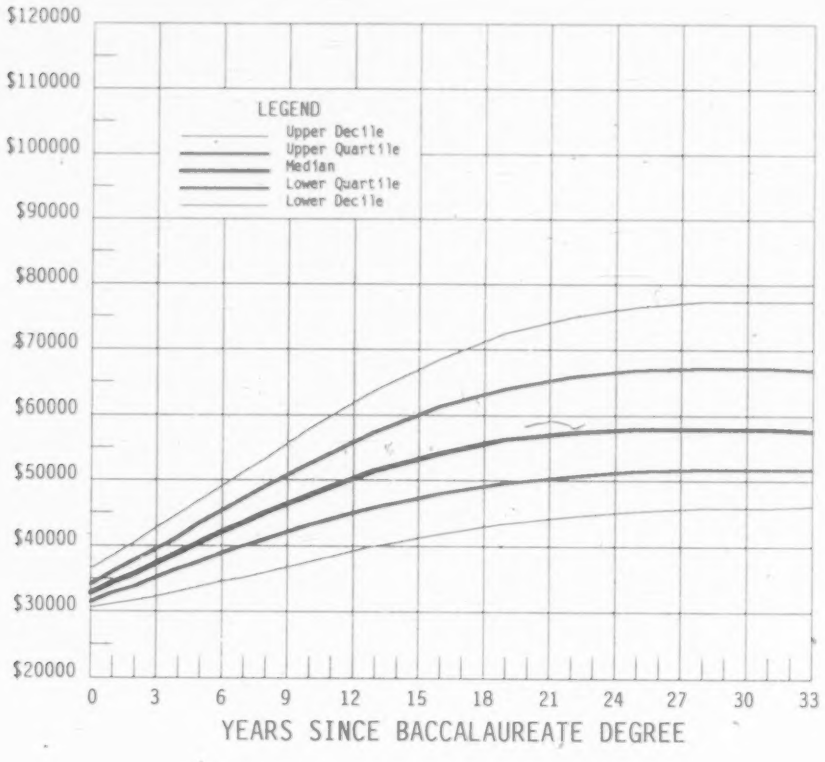
SALARY CURVES FOR ENGINEERS IN OTHER NONDURABLE GOODS MANUFACTURING SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: OTHER NONDURABLE GOODS MANUFACTURING, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	53400	55800	58250	60800	63450	68900	77550	86600	95850	105000	113750	121800	128800	140650	95300
Upper Quartile	0	0	0	0	49200	51050	52900	54800	56750	60750	67100	73600	80250	86850	93150	99050	104250	113200	78100
Median	0	0	0	0	45700	47150	48600	50050	51600	54650	59450	64350	69300	74150	78800	83100	86900	93450	64750
Lower Quartile	0	0	0	0	41300	42500	43750	45000	46300	48800	52650	56450	60150	63600	66800	69650	72050	76050	51200
Lower Decile	0	0	0	0	36400	37750	39150	40500	41850	44400	47800	50700	52900	54500	55500	56100	56350	56400	40900
Mean	0	0	0	0	45300	47000	48750	50550	52400	56100	61750	67400	72950	78150	82950	87150	90650	96400	68100
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	56000	49600	0	59400	59600	73400	83000	84150	98000	99500	120000	103350	103350	147500	95300
Upper Quartile	0	0	0	0	49500	47500	0	52750	55250	62350	72400	75600	77500	80100	79600	90850	92500	115600	78100
Median	0	0	0	0	47000	44750	0	49600	52250	53500	63000	67000	68000	74500	73700	73350	80000	90000	64750
Lower Quartile	0	0	0	0	39500	42100	0	47200	48750	47150	54500	59650	57000	62000	66000	67500	66000	70000	51200
Lower Decile	0	0	0	0	38000	34800	0	41900	47100	42950	48800	54100	45200	56150	54400	62400	54600	48200	40900
Mean	0	0	0	0	45200	44050	0	50900	53400	56550	64300	68900	71150	78600	79550	78200	79700	93900	68100
Supporting Data																			
Total Number	4	5	4	6	10	14	8	13	11	53	42	62	34	42	34	26	26	44	445
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	2	3	3	0	0	8	17
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

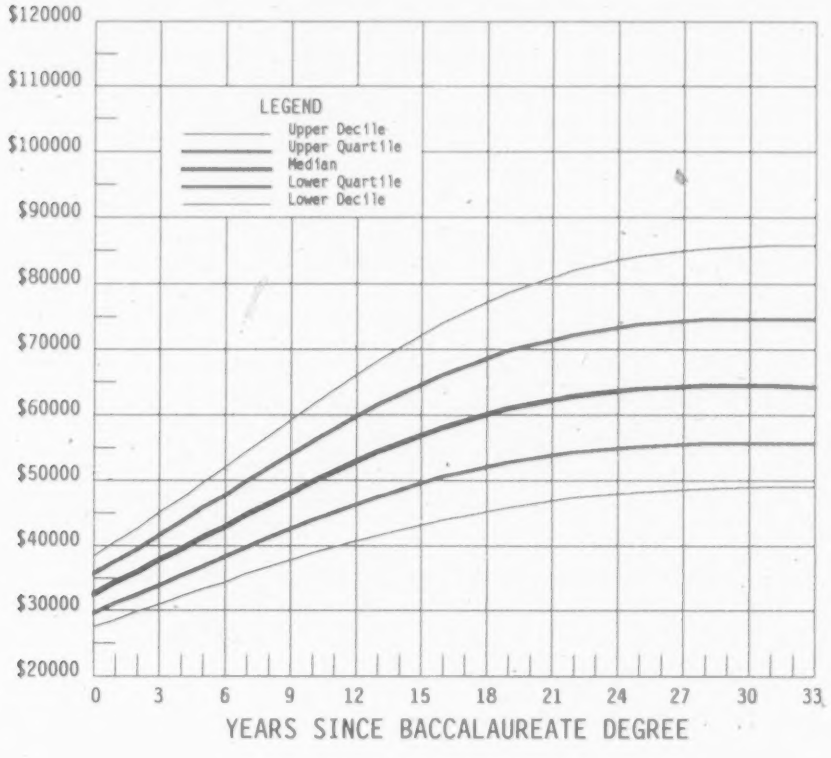
SALARY CURVES FOR ENGINEERS IN OTHER NONDURABLE GOODS MANUFACTURING NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: OTHER NONDURABLE GOODS MANUFACTURING, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	36450	38450	40500	42600	44750	46900	49100	51300	53450	57750	63650	68600	72450	75050	76600	77300	77450	76900	63200
Upper Quartile	34150	35900	37750	39600	41450	43350	45250	47100	48950	52500	57300	61200	64100	65950	66950	67300	67200	66450	53850
Median	32750	34300	35850	37400	39000	40550	42100	43600	45050	47800	51400	54200	56200	57350	57900	58000	57800	57050	45250
Lower Quartile	31500	32750	34000	35200	36450	37650	38850	40000	41100	43200	45900	48100	49700	50750	51400	51700	51750	51600	37400
Lower Decile	30650	31150	31750	32400	33050	33800	34550	35300	36100	37650	39900	41800	43350	44500	45250	45750	46000	46150	33300
Mean	32850	34350	35900	37450	38950	40500	42050	43550	45000	47800	51600	54650	56950	58550	59450	59950	60050	59800	47000
Raw (Unsmoothed) Statistics																			
Upper Decile	35950	38500	39250	44600	44700	48000	48650	51850	52000	59100	64150	59900	74600	77200	84500	71050	74400	82000	63200
Upper Quartile	34050	35500	37200	40150	40550	44150	45300	49250	48300	53900	58000	55900	61600	66000	70350	64850	63250	72650	53850
Median	33250	33850	35200	37850	38200	40800	41500	45650	44000	49150	51400	52150	54950	54650	61200	56250	58500	59000	45250
Lower Quartile	32500	32550	32700	35900	36000	37550	38300	41050	39800	43850	46150	47250	49100	50750	54700	50300	52250	51800	37400
Lower Decile	32000	31400	28800	34000	32950	33300	34750	34950	34650	39050	41550	39200	43700	46400	49100	42700	46700	44400	33300
Mean	33550	34500	34500	37700	38300	40800	41550	44300	44050	49150	52200	51800	56650	58350	63350	56850	58800	62300	47000
Supporting Data																			
Total Number	63	72	62	50	84	93	71	69	40	145	98	62	67	44	41	47	48	68	1223
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

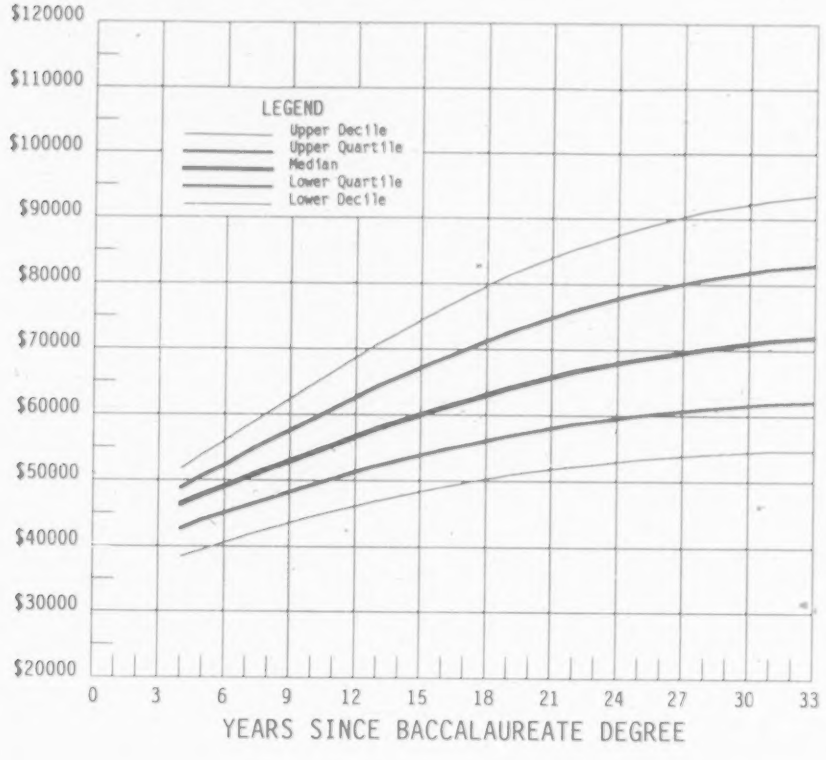
SALARY CURVES FOR ENGINEERS IN ALL NON-MANUFACTURING INDUSTRIES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ALL NON-MANUFACTURING INDUSTRIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	38350	40500	42650	44950	47250	49600	52000	54400	56800	61550	68250	74050	78700	82050	84200	85400	85850	85650	74500
Upper Quartile	35750	37650	39600	41600	43650	45750	47800	49900	51950	56000	61550	66250	69900	72400	73900	74600	74800	74350	63100
Median	32600	34300	36000	37750	39500	41250	43000	44800	46500	49850	54400	58150	61000	62900	63950	64450	64500	64000	53100
Lower Quartile	29650	31100	32500	34000	35450	36900	38350	39800	41200	43900	47550	50550	52800	54350	55300	55700	55850	55550	43400
Lower Decile	27500	28650	29800	31000	32150	33300	34500	35600	36700	38850	41700	44100	46000	47350	48250	48800	49050	49200	35600
Mean	32900	34550	36250	38000	39750	41500	43250	45050	46750	50150	54850	58800	61900	64100	65500	66250	66600	66500	54450
Raw (Unsmoothed) Statistics																			
Upper Decile	35400	38950	43000	45650	48350	51350	52700	55850	58750	62700	66900	71650	76200	80050	84400	85900	87450	88150	74500
Upper Quartile	33300	35200	39600	42700	44900	47600	48950	52000	53650	57100	60350	63700	67000	70900	74150	75300	75950	76800	63100
Median	31350	32950	35550	38300	39950	41850	43450	46300	47650	51050	54000	56650	58900	61400	63550	64550	65250	66000	53100
Lower Quartile	29300	30500	32250	33900	35600	36950	38450	40700	41850	44750	47450	49600	51600	53450	55650	55850	56050	56400	43400
Lower Decile	27400	28100	29700	30850	32350	33450	34200	36500	37100	39250	41750	43550	44950	46650	49100	49100	49200	49400	35600
Mean	31550	33250	36150	38500	40250	42250	43600	46350	47850	51150	54300	57300	59950	62700	65800	66600	67350	68000	54450
Supporting Data																			
Total Number	1082	1574	1719	2055	2370	2280	2281	2593	2439	7436	6138	5957	5302	4343	4123	3360	2815	4912	62788
$125,000 or More	0	0	0	0	0	0	0	0	0	2	2	4	9	8	14	15	13	38	105
Less Than $22000	7	3	4	4	4	2	1	2	3	0	0	1	0	0	0	0	0	0	33

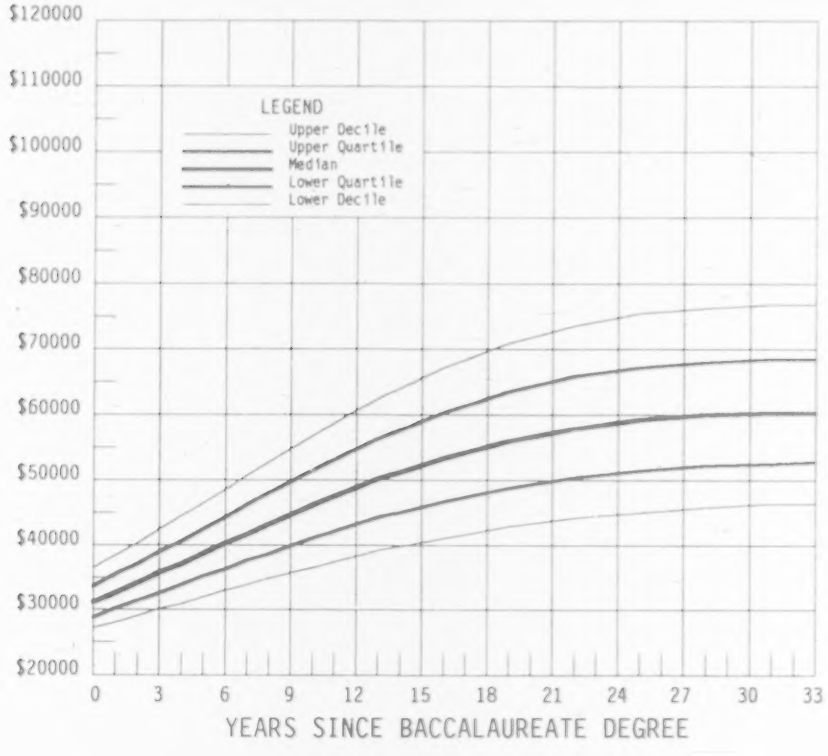
SALARY CURVES FOR ENGINEERS IN ALL NON-MANUFACTURING INDUSTRIES
SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ALL NON-MANUFACTURING INDUSTRIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	51750	53850	56000	58150	60250	64500	70650	76300	81200	85350	88650	91100	92900	95200	80250
Upper Quartile	0	0	0	0	48900	50650	52400	54150	55900	59300	64200	68650	72600	75950	78650	80750	82350	84500	69000
Median	0	0	0	0	46350	47700	49050	50350	51700	54250	57850	61150	64050	66550	68600	70250	71550	73400	58500
Lower Quartile	0	0	0	0	42800	43950	45050	46150	47250	49300	52200	54700	56850	58600	60000	61050	61850	62950	50150
Lower Decile	0	0	0	0	38500	39550	40550	41550	42550	44400	46950	49100	50850	52250	53300	54100	54600	55250	42900
Mean	0	0	0	0	45800	47300	48750	50200	51600	54450	58450	62100	65300	68050	70350	72150	73500	75450	60650
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	49950	53600	55050	58800	61950	66150	70350	75250	79700	84200	89300	91350	94700	95600	80250
Upper Quartile	0	0	0	0	47750	50100	51750	54900	57400	60350	63650	67900	71550	76100	79050	81050	83450	84300	69000
Median	0	0	0	0	45000	47650	48250	51200	52500	55200	57600	60800	62700	66550	69200	70100	71650	73850	58500
Lower Quartile	0	0	0	0	41800	44100	44200	46600	47400	50250	52100	54600	55800	58200	60450	60550	62250	63400	50150
Lower Decile	0	0	0	0	38300	39600	40050	41950	42000	44800	47150	49050	50050	51800	54550	53650	54600	55250	42900
Mean	0	0	0	0	44800	47200	47900	50700	52350	55400	58250	61700	64150	67800	71050	71950	74250	75550	60650
Supporting Data																			
Total Number	140	425	483	735	846	842	832	1147	1058	3554	3124	3042	2863	2273	2158	1680	1273	2049	28528
$125,000 or More	0	0	0	0	0	0	0	0	0	0	2	2	9	8	14	13	13	33	95
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

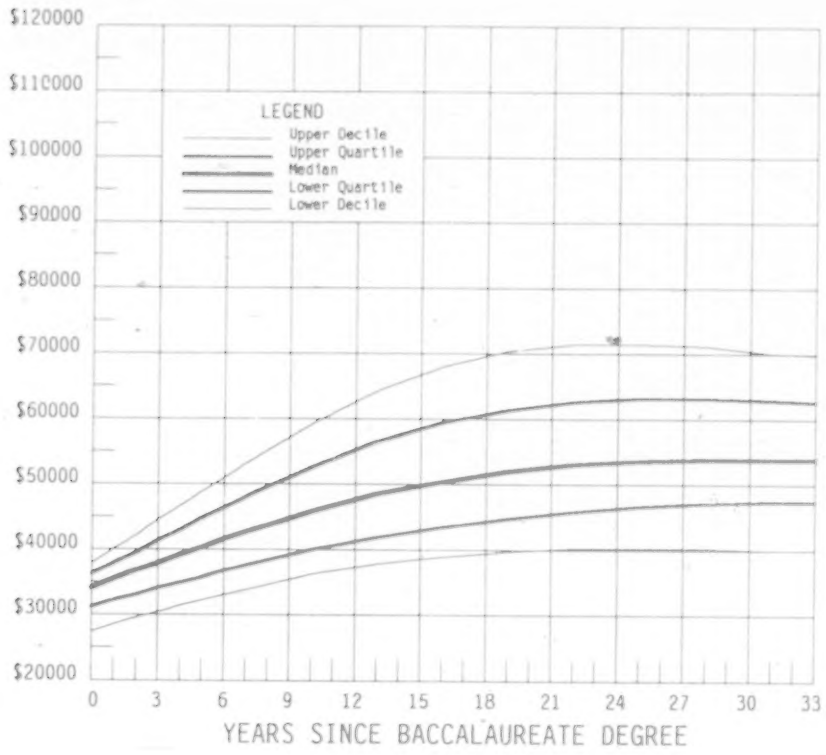
SALARY CURVES FOR ENGINEERS IN ALL NON-MANUFACTURING INDUSTRIES NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ALL NON-MANUFACTURING INDUSTRIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	36500	38450	40400	42400	44450	46500	48550	50650	52700	56750	62350	67150	70950	73650	75400	76350	76750	76650	66900
Upper Quartile	33650	35350	37100	38850	40650	42500	44300	46100	47900	51400	56250	60350	63550	65850	67300	68100	68450	68350	57650
Median	31150	32650	34100	35600	37150	38650	40200	41700	43150	46050	50000	53350	55950	57850	59150	59900	60250	60350	48000
Lower Quartile	28900	30150	31350	32600	33850	35100	36350	37550	38750	41000	44150	46800	48900	50450	51550	52250	52650	52950	39000
Lower Decile	27100	28050	29050	30050	31050	32000	33000	33950	34850	36650	39100	41150	42850	44200	45150	45850	46300	46800	32950
Mean	31550	33000	34500	36000	37500	39050	40550	42050	43550	46450	50450	53850	56550	58600	59950	60750	61200	61450	49300
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	35050	36800	40800	42900	45100	47600	50400	51900	53900	57600	61550	64900	68200	71300	75550	77350	76950	79050	66900
Upper Quartile	32950	34100	37150	39150	40800	43000	45400	47100	49150	52450	55750	58750	61600	63750	66700	68250	69250	70300	57650
Median	30950	31900	34000	35300	37250	38800	40700	42500	44500	47000	49700	52050	54450	56600	58700	60200	60850	61500	48000
Lower Quartile	29000	29600	31200	32300	33900	35200	36500	38400	39250	41600	44150	46100	47750	49400	51650	52800	53000	53400	39000
Lower Decile	27050	27350	28950	30000	31300	32300	32900	34800	35400	37050	38850	40750	41900	42850	46000	46100	46800	47100	32950
Mean	31050	32200	34500	35950	37700	39400	41150	42900	44400	47200	50150	52750	55050	57100	60000	61200	61600	62550	49300
---------- Supporting Data ----------																			
Total Number	940	1150	1237	1319	1524	1437	1449	1446	1380	3884	3016	2916	2439	2071	1966	1682	1541	2856	34259
$125,000 or More	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	1	0	5	10
Less Than $22000	7	3	4	4	4	2	1	2	3	0	0	1	0	0	0	0	0	0	33

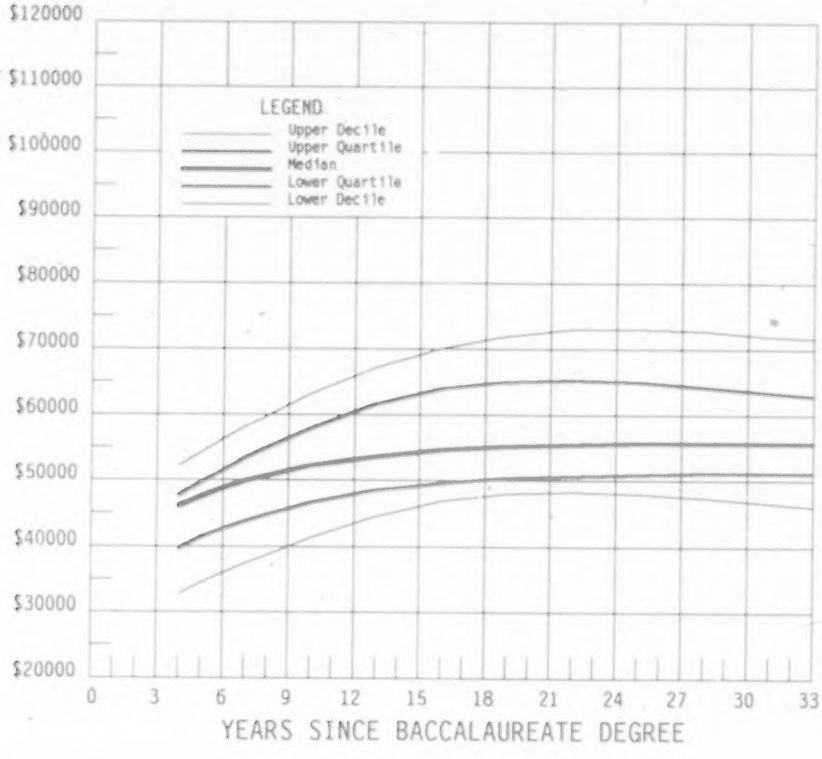
SALARY CURVES FOR ENGINEERS IN COMMUNICATION SERVICES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: COMMUNICATION SERVICES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	38000	40100	42250	44400	46600	48800	51000	53150	55250	59200	64300	68050	70450	71500	71600	71100	70250	68250	65350
Upper Quartile	36200	37900	39600	41350	43050	44750	46400	48050	49650	52650	56500	59450	61450	62600	63100	63100	62850	61950	54700
Median	34200	35450	36700	37950	39150	40350	41500	42650	43750	45750	48400	50450	51950	52950	53550	53850	53950	53800	46800
Lower Quartile	31200	32150	33100	34050	34950	35850	36700	37550	38350	39900	41900	43600	44900	45900	46600	47100	47400	47700	39450
Lower Decile	27550	28550	29500	30450	31400	32300	33150	33950	34750	36150	37850	39050	39850	40200	40300	40250	40050	39550	34100
Mean	33600	35000	36400	37800	39150	40550	41850	43150	44400	46750	49800	52200	53900	54950	55550	55750	55700	55300	48200
Raw (Unsmoothed) Statistics																			
Upper Decile	34000	39500	42150	47800	46000	49850	52450	53850	55150	61250	63000	66950	67650	70500	69450	72000	67800	77450	65350
Upper Quartile	33400	36150	40150	43200	42050	47600	47700	49750	49600	53850	55150	56950	61400	59650	62400	65250	66250	65300	54700
Median	32450	33700	37700	39550	38400	42150	41000	43250	45300	46450	47900	48850	50500	52400	54600	55000	58000	54700	46800
Lower Quartile	30600	30900	33100	34950	34500	36100	37400	38000	39350	40400	42300	41900	43700	45250	47750	48950	49300	48850	39450
Lower Decile	28950	27400	30000	29400	30900	32750	32950	34600	35100	36650	37950	38800	39300	39600	39900	40700	40150	41700	34100
Mean	32250	33650	36600	39050	38500	41800	42250	43860	45200	47800	49300	50800	52500	53800	55950	56700	57950	58000	48200
Supporting Data																			
Total Number	52	85	90	97	87	110	122	116	122	334	278	288	256	159	112	110	111	139	2663
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

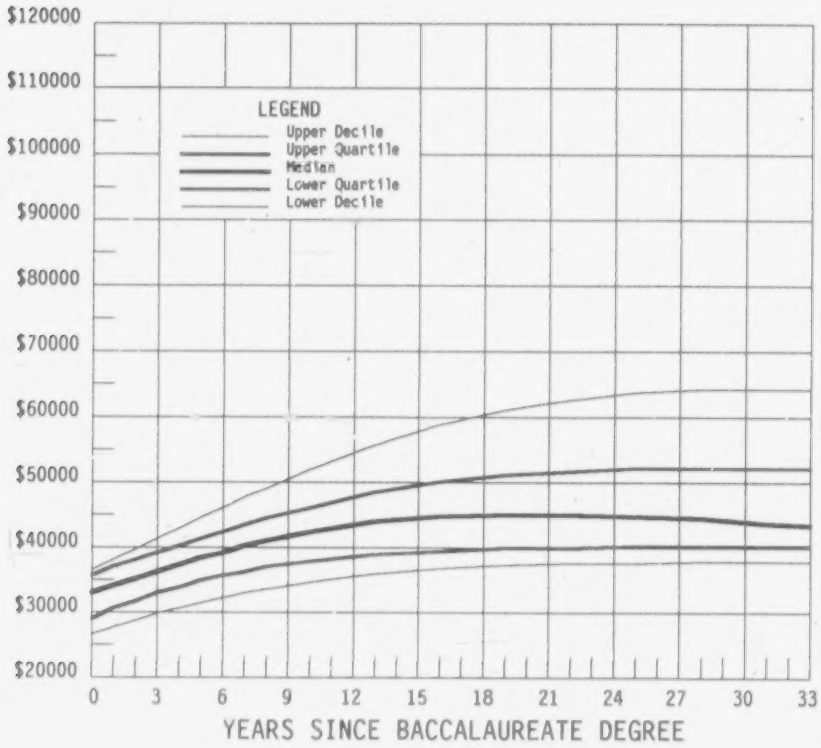
SALARY CURVES FOR ENGINEERS IN COMMUNICATION SERVICES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: COMMUNICATION SERVICES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	52250	54250	56150	58050	59850	63150	67300	70250	72100	72950	73050	72700	72100	70600	67600
Upper Quartile	0	0	0	0	47750	49600	51450	53200	54900	57900	61550	63950	65200	65450	65050	64250	63350	61400	61650
Median	0	0	0	0	46200	47550	48750	49800	50750	52200	53700	54600	55150	55450	55650	55700	55750	55750	53450
Lower Quartile	0	0	0	0	39850	41300	42650	43850	44900	46650	48450	49650	50350	50750	51000	51100	51200	51200	47950
Lower Decile	0	0	0	0	32850	34350	35900	37350	38750	41400	44650	46850	48050	48350	48050	47350	46550	44850	40550
Mean	0	0	0	0	44300	45800	47200	48550	49850	52200	55050	57000	58150	58650	58600	58300	57800	56700	54550
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	53900	51800	54850	57250	60800	65750	67300	70950	68950	73100	73400	74000	67750	85350	67600
Upper Quartile	0	0	0	0	48650	49550	52250	52850	54650	58200	59900	64750	65050	64450	65100	66200	66550	66200	61650
Median	0	0	0	0	46100	47800	48500	50300	49750	52500	53650	54750	55000	54800	55600	55800	64550	55550	53450
Lower Quartile	0	0	0	0	38750	42500	41400	43800	45950	46700	48300	49500	49800	49950	53850	53800	53000	53050	47950
Lower Decile	0	0	0	0	27400	38250	35400	39050	39400	40300	44350	47350	47350	46700	51300	48700	48200	48550	40550
Mean	0	0	0	0	43900	46300	46800	48500	50300	52600	54400	56950	57050	57800	60850	59950	60450	61100	54550
Supporting Data																			
Total Number	20	18	14	34	17	44	47	51	54	151	138	148	141	99	63	80	84	86	1279
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

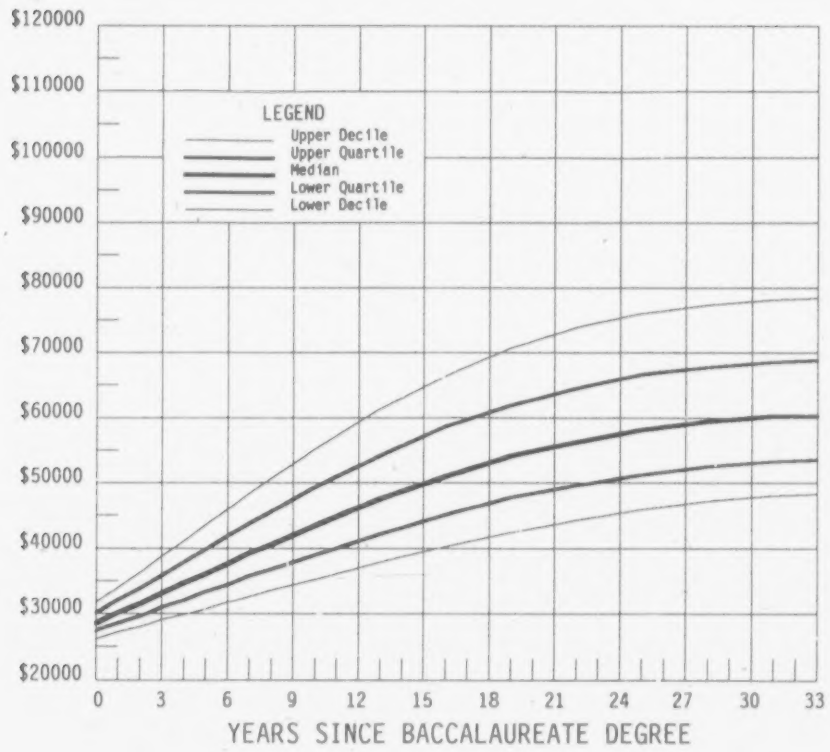
SALARY CURVES FOR ENGINEERS IN COMMUNICATION SERVICES NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: COMMUNICATION SERVICES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	36550	38100	39700	41350	42950	44500	46100	47650	49150	52000	55800	58850	61150	62750	63700	64150	64300	64100	53500
Upper Quartile	35750	36950	38100	39250	40400	41450	42500	43500	44450	46200	48400	50000	51150	51850	52250	52350	52300	52000	46050
Median	32950	34100	35250	36350	37350	38350	39300	40150	41000	42350	43900	44850	45200	45150	44850	44400	43850	42850	40750
Lower Quartile	29150	30550	31800	32950	33950	34850	35650	36350	36950	37950	38950	39550	39950	40100	40250	40300	40300	40300	36600
Lower Decile	26800	27850	28900	29850	30750	31550	32350	33000	33650	34750	35950	36750	37250	37500	37700	37750	37800	37800	32100
Mean	31750	33300	34750	36150	37450	38600	39700	40700	41550	43100	44750	45850	46600	47050	47350	47500	47600	47650	42300
Raw (Unsmoothed) Statistics																			
Upper Decile	33950	36750	41100	42900	42950	46400	46700	47550	48250	54200	53000	54650	62500	65800	65450	64400	72000	74000	53500
Upper Quartile	33000	35100	39600	40700	40850	43250	42700	43850	45650	47100	47200	47250	49450	51300	57400	54750	60650	59400	46050
Median	31400	32700	36300	38100	37800	38750	39350	39750	40900	42950	44000	43250	43850	45250	47300	45500	47000	50250	40750
Lower Quartile	29650	30250	32600	31900	34000	33900	35400	36150	37500	38600	39250	39500	40600	39900	41950	40100	39350	43800	36600
Lower Decile	28550	26900	29400	28650	30750	31800	32200	32700	32850	35200	36500	38200	38350	37100	35800	38650	38000	39050	32100
Mean	31500	32350	36050	36600	37300	39000	39400	39950	41000	43800	44200	44750	47000	47800	49550	48300	50750	53200	42300
Supporting Data																			
Total Number	34	67	78	63	72	66	77	67	67	182	140	139	115	61	49	29	30	55	1382
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

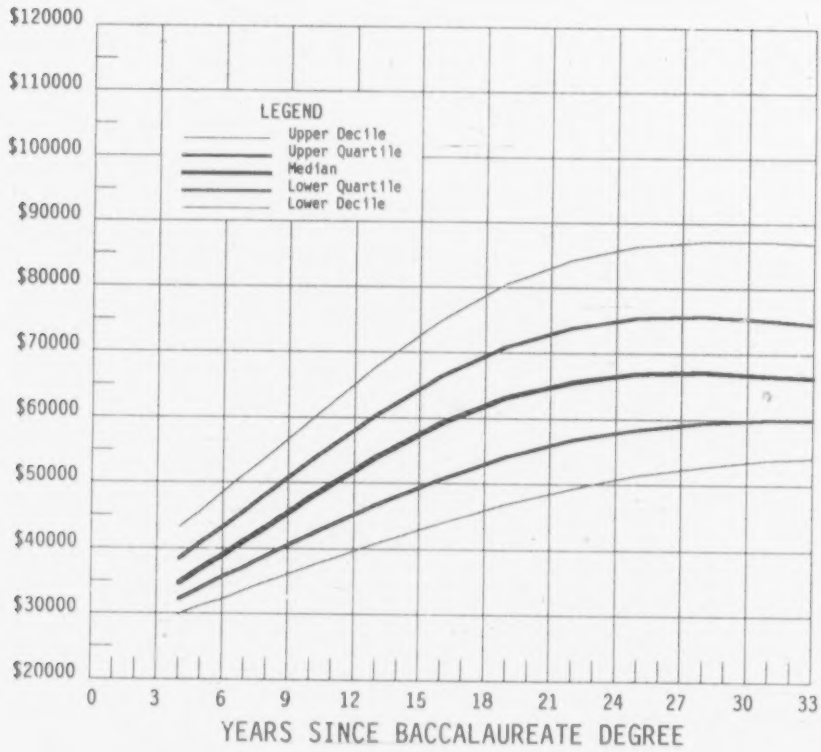
SALARY CURVES FOR ENGINEERS IN CONSTRUCTION
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: CONSTRUCTION

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	31700	33950	36250	38650	41050	43450	45850	48200	50550	55100	61300	66500	70700	73800	75950	77350	78150	78750	68000
Upper Quartile	30100	32000	33900	35850	37800	39750	41750	43650	45550	49250	54250	58550	62000	64650	66550	67800	68550	69150	59050
Median	28650	30100	31600	33100	34600	36100	37600	39100	40600	43450	47450	51000	54000	56350	58150	59350	60150	60800	48950
Lower Quartile	27350	28550	29700	30900	32100	33250	34450	35600	36800	39050	42250	45100	47600	49650	51300	52500	53300	54150	38400
Lower Decile	26250	27150	28050	28950	29850	30750	31700	32600	33500	35300	37900	40300	42500	44350	45900	47100	48000	48950	31500
Mean	28950	30500	32050	33600	35200	36800	38350	39950	41500	44550	48800	52600	55750	58300	60200	61500	62350	63100	50050
Raw (Unsmoothed) Statistics																			
Upper Decile	32550	33500	36000	38400	40150	43450	47150	49150	47150	54000	62350	69600	73650	73900	78450	74000	72150	76700	68000
Upper Quartile	31300	31750	33700	34950	37200	39200	40450	43550	43900	49150	55600	60600	64400	65350	68050	65150	63600	67100	59050
Median	29900	29900	31350	31800	33950	35750	36550	38750	40000	44100	48800	51300	54600	57200	58100	58750	57950	59700	48950
Lower Quartile	28700	28250	29400	29600	31600	32700	33550	35800	36600	39700	42650	45500	47350	49900	52200	52850	53050	52550	38400
Lower Decile	28000	26400	28100	27900	29300	29300	30250	32900	34400	36300	37500	40450	42650	45050	47250	46600	47700	47500	31500
Mean	30250	30000	31650	32900	34700	36250	37500	39950	40600	44850	49400	53700	56750	58750	61700	60450	60400	60900	50050
Supporting Data																			
Total Number	129	114	100	115	125	129	107	115	147	376	322	457	382	353	259	255	169	341	3995
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	1	2	1	9
Less Than $22000	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3

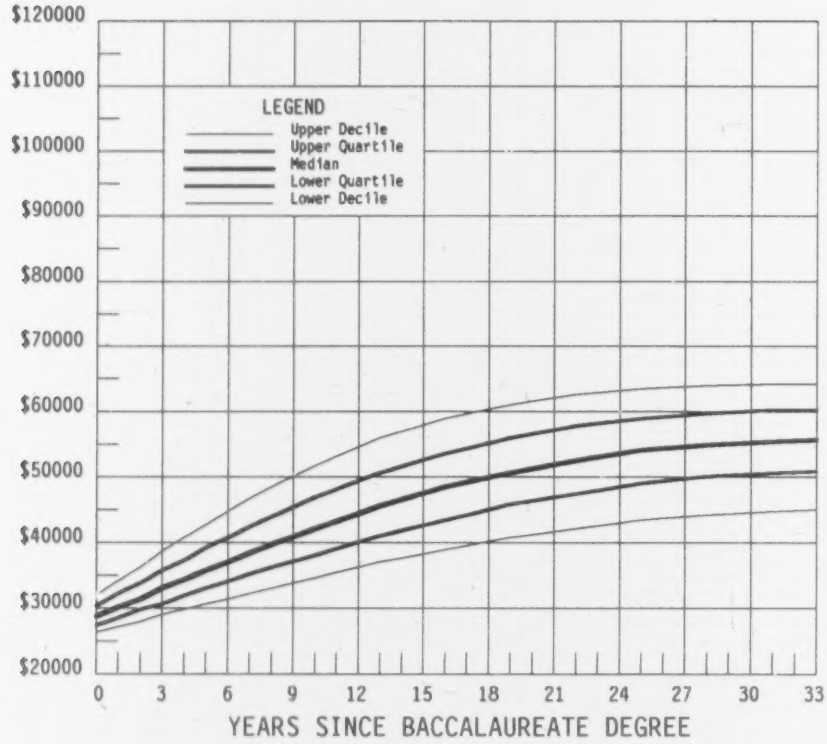
SALARY CURVES FOR ENGINEERS IN CONSTRUCTION SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: CONSTRUCTION, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	43100	45700	48400	51150	53900	59550	67700	74850	80500	84350	86500	87300	87200	85750	79250
Upper Quartile	0	0	0	0	38450	40800	43250	45700	48200	53200	60300	66450	71050	73950	75350	75600	75100	73250	69350
Median	0	0	0	0	34800	36850	39000	41150	43300	47650	53850	59150	63100	65650	66900	67150	66800	65300	61150
Lower Quartile	0	0	0	0	32350	33950	35600	37200	38850	42100	46750	50800	54200	56700	58400	59400	59950	60150	49600
Lower Decile	0	0	0	0	29950	31150	32400	33600	34850	37300	40850	44100	47000	49400	51350	52800	53900	55300	41600
Mean	0	0	0	0	36000	38000	40050	42150	44250	48450	54450	59700	63900	66800	68550	69350	69500	68850	61250
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	43100	49400	49900	51800	49000	60600	66250	76250	79900	81900	92250	87400	88000	84200	79250
Upper Quartile	0	0	0	0	39100	39500	46250	47000	45000	52050	61150	69250	71550	71400	76700	71650	74000	75600	69350
Median	0	0	0	0	35500	36500	40700	41600	41800	46650	53000	61850	64100	64800	66800	63800	63700	67800	61150
Lower Quartile	0	0	0	0	32850	33000	37500	36000	38000	42000	47450	51350	54000	56800	57900	58250	58350	61450	49600
Lower Decile	0	0	0	0	29300	29400	32200	33200	36300	37750	41250	44150	45400	49350	53250	52550	53100	55500	41600
Mean	0	0	0	0	36250	38450	41900	42350	42500	47850	54000	61550	63850	65800	70100	67100	69000	69700	61250
Supporting Data																			
Total Number	0	2	3	0	13	14	21	28	40	111	108	176	172	161	121	121	62	148	1301
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	1	2	1	9
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

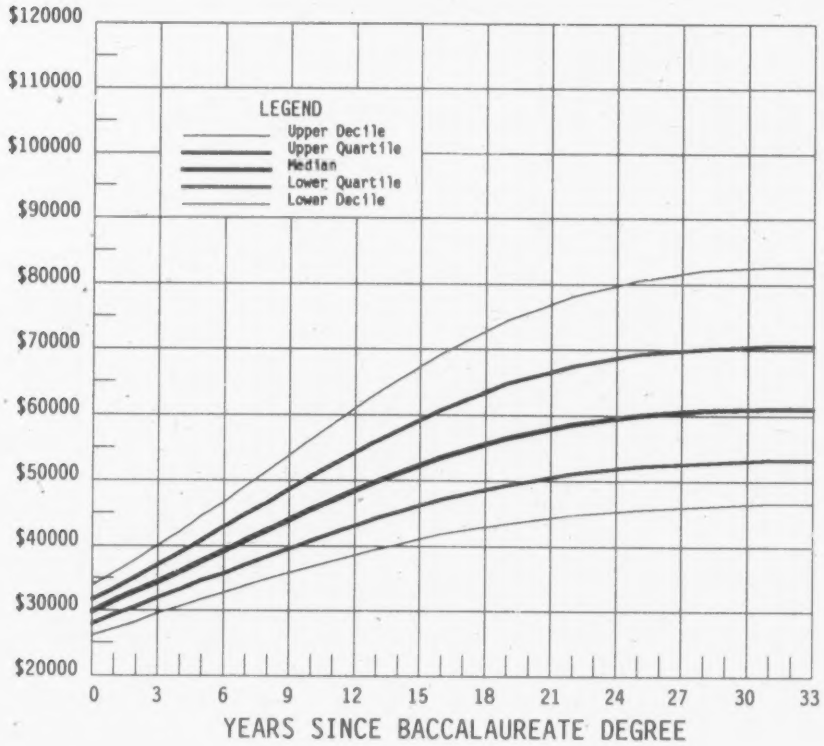
SALARY CURVES FOR ENGINEERS IN CONSTRUCTION NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: CONSTRUCTION, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	31900	34100	36350	38550	40700	42800	44800	46700	48550	51850	55900	58950	61100	62550	63450	64000	64300	64450	59050
Upper Quartile	30450	32200	33950	35700	37400	39150	40800	42400	43950	46850	50650	53700	56050	57800	59000	59800	60250	60600	52850
Median	28850	30200	31600	32950	34350	35700	37050	38350	39650	42150	45500	48400	50800	52650	54000	54950	55550	56050	44400
Lower Quartile	27550	28650	29750	30800	31900	33000	34050	35100	36150	38200	41000	43550	45750	47550	48950	50000	50700	51450	35300
Lower Decile	26400	27250	28100	28950	29800	30600	31450	32300	33100	34700	36950	39000	40750	42250	43400	44250	44850	45500	30200
Mean	29200	30600	32050	33450	34900	36250	37650	38950	40250	42700	46000	48750	50950	52650	53850	54700	55250	55700	44650
Raw (Unsmoothed) Statistics																			
Upper Decile	32550	33550	35900	38400	39900	42950	45050	48150	46650	51950	58250	58400	61550	62450	64200	63450	63600	63350	59050
Upper Quartile	31300	31800	33650	34950	37000	39200	38750	42650	43500	48100	52300	53350	55950	58100	58850	59350	59850	59750	52850
Median	29900	29900	31350	31800	33850	35650	35800	38100	39300	43150	46900	48600	50550	52800	54100	55150	55300	54400	44400
Lower Quartile	28700	28250	29500	29600	31450	32700	33150	35750	35950	38950	41750	43750	45300	47700	49200	50100	51000	50250	35300
Lower Decile	28000	26400	28150	27900	29300	29300	29850	32750	34100	35950	36600	39100	41600	42350	44750	43650	46300	43000	30200
Mean	30250	30000	31650	32900	34500	36000	36400	39200	39900	43550	47050	48800	50950	52850	54300	54450	55400	54150	44650
Supporting Data																			
Total Number	129	112	97	115	112	115	86	87	107	265	214	281	210	192	138	134	107	193	2694
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3

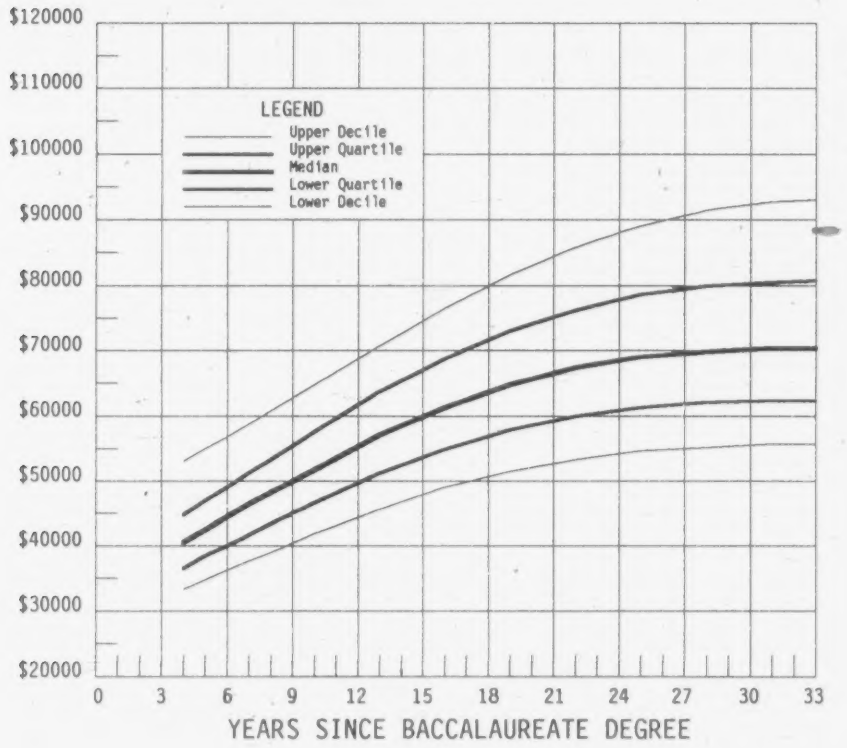
SALARY CURVES FOR ENGINEERS IN CONSULTING & ENGINEERING SERVICES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: CONSULTING & ENGINEERING SERVICES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33750	35750	37800	39950	42200	44450	46800	49150	51550	56300	63200	69400	74450	78200	80650	82050	82700	82650	71400
Upper Quartile	31700	33450	35250	37100	39000	40900	42850	44800	46800	50650	56100	60900	64700	67450	69250	70250	70700	70650	60700
Median	29900	31400	32950	34500	36100	37700	39300	40900	42450	45550	49850	53500	56450	58550	59950	60750	61150	61200	50150
Lower Quartile	28050	29350	30600	31950	33250	34550	35850	37150	38450	40900	44300	47200	49450	51100	52250	52900	53250	53450	39900
Lower Decile	26250	27300	28400	29500	30600	31700	32750	33800	34850	36800	39500	41750	43500	44800	45700	46250	46600	46800	33200
Mean	30050	31550	33150	34750	36400	38050	39700	41350	43050	46300	50850	54800	58000	60400	62000	63000	63500	63700	51800
Raw (Unsmoothed) Statistics																			
Upper Decile	33600	34950	37800	40750	42400	45050	46500	49900	52250	56050	62350	69700	74650	77900	81150	80550	81600	83900	71400
Upper Quartile	32000	33100	35500	36950	38950	40650	42650	45150	47300	50800	55350	61450	64900	67500	69600	69400	69350	71350	60700
Median	30450	31150	33100	34050	36100	37550	38850	40750	42600	45900	49450	53800	56550	58850	60000	60500	60600	61300	50150
Lower Quartile	28300	29050	30800	31950	33200	34550	35400	37600	38350	40900	44100	47400	49650	50850	52750	52650	53050	53400	39900
Lower Decile	25750	26900	28800	30150	30800	31700	32500	34450	35300	36700	38950	41900	43100	44650	46700	45950	46600	46800	33200
Mean	30100	31150	33500	34950	36350	38100	39300	41600	43200	46350	50300	55250	58150	60300	62550	62150	62850	64100	51800
Supporting Data																			
Total Number	424	477	472	504	632	567	549	565	530	1650	1513	1749	1584	1422	1210	1093	896	1617	17454
$125,000 or More	0	0	0	0	0	0	0	0	0	1	1	3	4	3	6	5	4	19	46
Less Than $22000	6	1	3	2	3	2	1	0	2	0	0	1	0	0	0	0	0	0	21

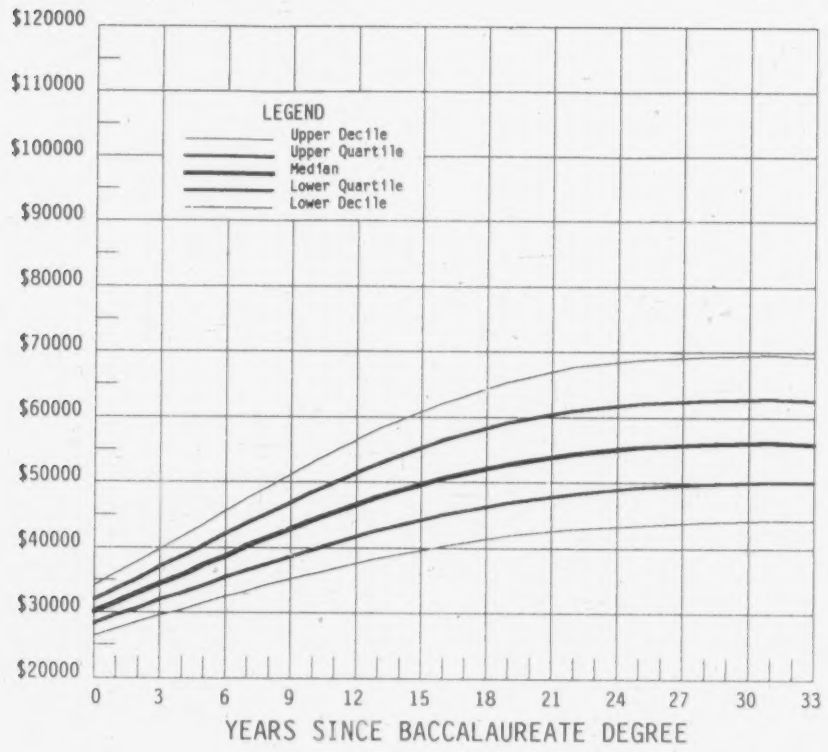
SALARY CURVES FOR ENGINEERS IN CONSULTING & ENGINEERING SERVICES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: CONSULTING & ENGINEERING SERVICES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	0	0	0	0	53100	54900	56800	58750	60700	64700	70750	76500	81650	85900	89150	91450	92850	94000	84950
Upper Quartile	0	0	0	0	44850	46950	49100	51250	53400	57650	63650	68900	73200	76400	78550	79900	80600	80900	73950
Median	0	0	0	0	40650	42500	44400	46300	48150	51800	56950	61350	64850	67400	69050	70000	70450	70500	64350
Lower Quartile	0	0	0	0	36650	38350	40000	41700	43350	46600	51100	54900	57900	60000	61350	62050	62300	62200	55600
Lower Decile	0	0	0	0	33300	34750	36200	37650	39050	41850	45700	48950	51500	53350	54600	55250	55600	55600	47800
Mean	0	0	0	0	41800	43650	45500	47350	49250	52900	58050	62550	66250	69100	71100	72350	73100	73650	66000
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	0	0	0	0	49700	60000	55400	58800	62400	65000	69150	76700	82150	86800	91450	89300	92350	93250	84950
Upper Quartile	0	0	0	0	44750	44750	50400	49800	56550	58550	62650	69250	72950	76950	78900	78300	80900	81200	73950
Median	0	0	0	0	41000	40350	44450	46000	50450	52650	55350	62050	64950	68250	68850	69150	68350	71500	64350
Lower Quartile	0	0	0	0	35750	37000	39700	41900	45000	47100	50200	55600	57550	60950	60650	61150	61300	63000	55600
Lower Decile	0	0	0	0	34100	33350	37400	37450	39200	41900	45000	49500	51750	53600	54900	53400	55200	56250	47800
Mean	0	0	0	0	42150	43200	45350	46750	51000	53350	56900	63000	66350	69700	71550	70850	72450	74100	66000
---------- Supporting Data ----------																			
Total Number	1	2	11	13	22	30	34	76	56	280	435	617	655	549	496	409	325	632	4643
$125,000 or More	0	0	0	0	0	0	0	0	0	0	1	1	4	3	6	4	4	15	38
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

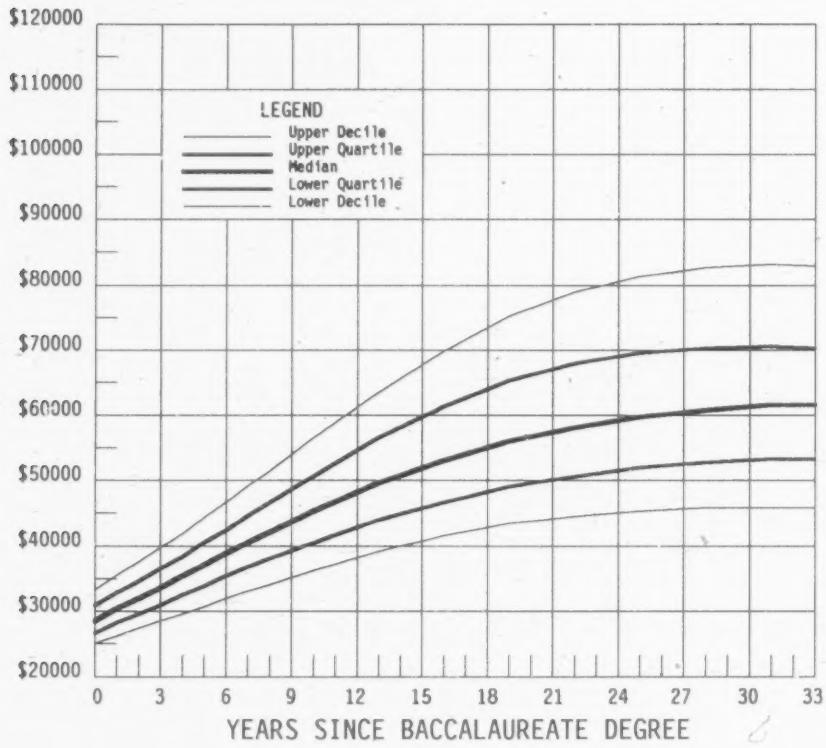
SALARY CURVES FOR ENGINEERS IN CONSULTING & ENGINEERING SERVICES NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: CONSULTING & ENGINEERING SERVICES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	34200	36000	37850	39700	41600	43550	45500	47400	49300	53000	58050	62250	65450	67650	68900	69450	69550	69000	62000
Upper Quartile	32050	33650	35300	36950	38650	40350	42000	43700	45350	48550	52850	56450	59200	61050	62150	62700	62850	62500	54350
Median	30200	31600	33000	34450	35850	37300	38750	40150	41500	44150	47700	50650	52900	54500	55450	55950	56150	56000	45800
Lower Quartile	28350	29500	30700	31900	33050	34250	35400	36550	37700	39850	42700	45150	47000	48350	49300	49850	50100	50250	37200
Lower Decile	26450	27450	28450	29500	30500	31500	32450	33400	34300	36050	38400	40300	41800	42850	43550	43950	44200	44300	32050
Mean	30300	31700	33150	34550	36000	37450	38900	40350	41750	44450	48100	51150	53500	55150	56250	56800	57050	57000	46650
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	33600	35000	37550	40550	41800	44700	45950	48850	50200	53250	57700	61500	63250	66000	69150	70000	70400	70350	62000
Upper Quartile	32000	33100	35400	36800	38750	40500	42200	43850	46300	49250	52350	56050	58000	60500	61950	62950	63650	63000	54350
Median	30450	31150	33000	34000	36050	37400	38600	40250	42000	44900	47400	50400	52150	54100	55100	56350	56100	56550	45800
Lower Quartile	28350	29000	30750	31900	33150	34500	35150	37150	38050	40150	42500	45050	46100	47900	49650	49900	50550	50500	37200
Lower Decile	25850	26900	28750	30100	30750	31600	32350	34250	35100	36250	37600	40200	41000	42300	44800	43400	44600	44650	32050
Mean	30150	31150	33100	34750	36150	37800	38900	40800	42300	44950	47650	51050	52350	54400	56300	56950	57400	57700	46650
---------- Supporting Data ----------																			
Total Number	423	475	461	491	610	537	515	489	474	1370	1078	1132	929	873	714	684	571	985	12811
$125,000 or More	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	1	0	4	8
Less Than $22000	6	1	3	2	3	2	1	0	2	0	0	1	0	0	0	0	0	0	21

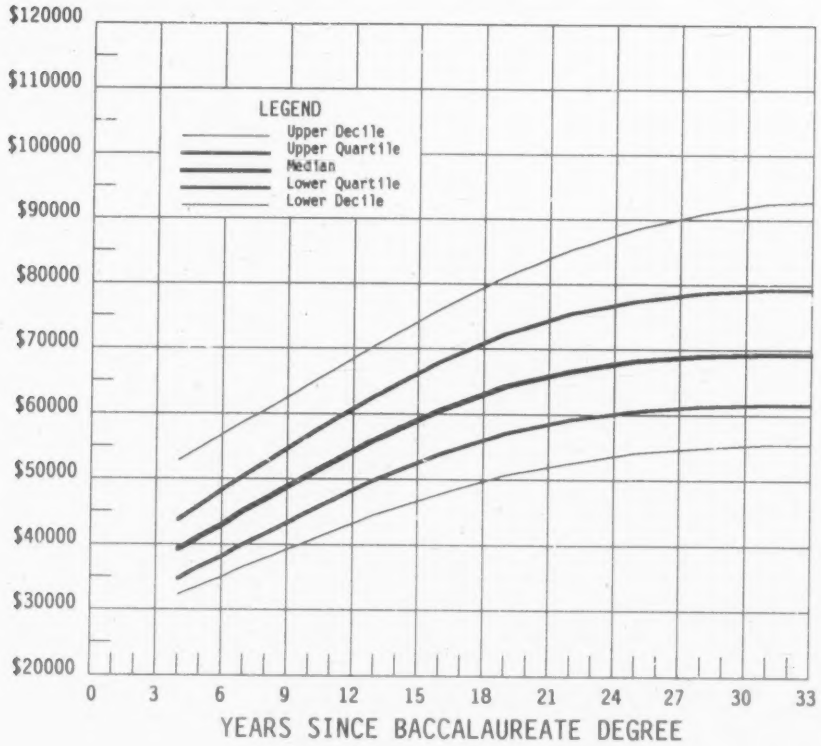
SALARY CURVES FOR ENGINEERS IN CONSULTING
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: CONSULTING

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	33350	35400	37500	39700	41950	44300	46650	49100	51550	56450	63600	69950	75150	78900	81350	82650	83100	82800	70650
Upper Quartile	30950	32700	34600	36500	38450	40450	42500	44550	46600	50700	56450	61400	65250	67950	69600	70350	70550	70000	59950
Median	28650	30300	32000	33700	35450	37150	38850	40500	42150	45300	49550	53150	56050	58250	59850	60900	61500	62050	49400
Lower Quartile	26700	28150	29600	31050	32500	33950	35350	36700	38050	40600	43950	46800	49050	50750	52000	52850	53350	53800	38650
Lower Decile	25050	26200	27350	28500	29650	30800	31950	33100	34200	36300	39150	41550	43350	44600	45400	45850	46000	45950	31850
Mean	29100	30650	32300	33950	35650	37400	39100	40850	42600	46050	50850	54950	58250	60600	62100	62900	63250	63100	50850
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	32800	34350	38100	41050	42450	44550	46800	49800	52150	55850	63200	69950	75350	78600	82250	79950	80100	85350	70650
Upper Quartile	31150	32400	34900	36450	38350	39900	42400	44900	45850	50700	56400	61850	65850	68150	68950	67850	67350	72300	59950
Median	29150	30400	32300	33400	34950	36350	37800	40300	41700	45750	49800	54200	57100	58900	59400	59650	59000	61450	49400
Lower Quartile	26900	28150	30150	30900	32300	33500	34300	36500	37800	40500	44300	47600	49850	50650	52400	52250	52050	53100	38650
Lower Decile	24150	26300	28300	28900	29650	30650	31400	33900	34350	35950	39000	41850	43800	43500	46100	45050	45500	46500	31850
Mean	28950	30450	32950	34300	35500	37100	38650	40900	42400	46050	50900	55300	58800	60300	62100	61200	61150	64550	50850
---------- Supporting Data ----------																			
Total Number	253	313	295	277	349	312	309	297	296	915	840	1029	914	728	582	482	388	784	9363
$125,000 or More	0	0	0	0	0	0	0	0	0	0	1	1	4	2	2	1	1	11	23
Less Than $22000	6	1	2	2	3	2	1	1	2	0	0	1	0	0	0	0	0	0	21

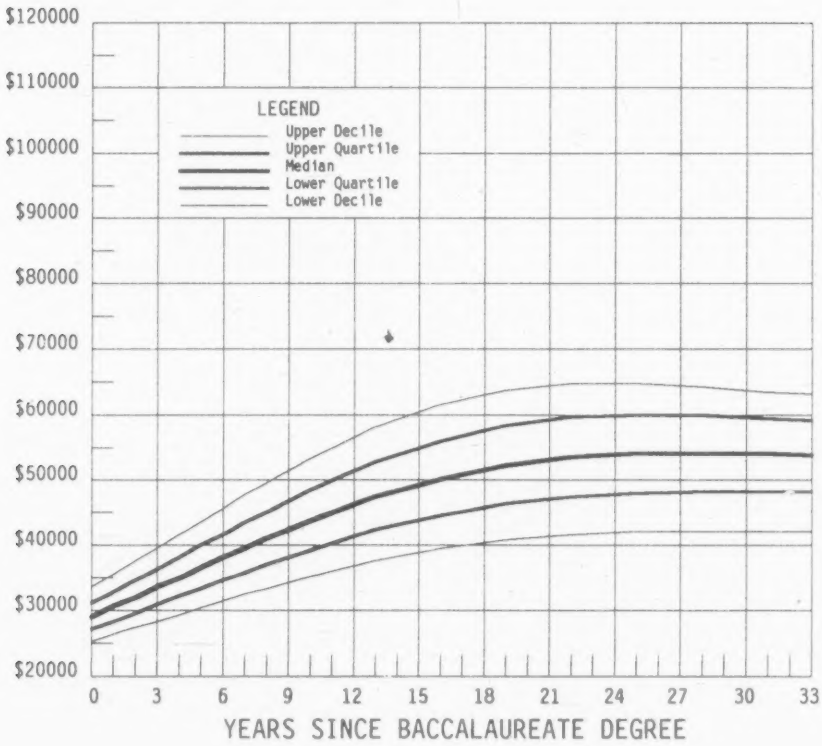
SALARY CURVES FOR ENGINEERS IN CONSULTING SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: CONSULTING, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	0	0	0	0	52900	54800	56700	58650	60650	64600	70500	76100	81100	85300	88600	90950	92500	93850	84450
Upper Quartile	0	0	0	0	43850	46000	48150	50300	52500	56750	62800	68050	72300	75400	77450	78600	79150	79150	72450
Median	0	0	0	0	39200	41100	43050	45000	46900	50700	56050	60600	64200	66700	68250	69050	69300	69000	63400
Lower Quartile	0	0	0	0	34750	36450	38200	39900	41650	45050	49750	53850	57000	59250	60650	61350	61550	61250	54550
Lower Decile	0	0	0	0	32200	33600	35000	36400	37850	40600	44450	47800	50550	52600	54000	54900	55400	55700	46650
Mean	0	0	0	0	40450	42350	44250	46200	48100	51850	57150	61800	65600	68400	70350	71500	72150	72400	64900
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	0	0	0	0	49400	60400	56400	58000	59750	65550	69700	75450	81100	86900	91600	89000	90050	93500	84450
Upper Quartile	0	0	0	0	43500	40700	50000	48800	55750	57850	62700	68350	72100	75550	77050	76650	77300	80750	72450
Median	0	0	0	0	40000	38650	42800	44550	48900	51100	55050	61500	64650	67450	67050	66600	66750	70850	63400
Lower Quartile	0	0	0	0	35000	34500	39300	39100	41250	45600	49400	54550	56550	60300	59950	59900	59300	62600	54550
Lower Decile	0	0	0	0	32800	32600	36800	36200	37300	40350	43850	48500	50700	52800	54350	53550	53450	56600	46650
Mean	0	0	0	0	40100	41200	44800	45150	48600	52400	56800	62200	65750	68900	70200	69250	69700	74000	64900
---------- Supporting Data ----------																			
Total Number	1	2	6	8	14	19	28	45	33	181	290	446	464	351	294	230	179	411	3002
$125,000 or More	0	0	0	0	0	0	0	0	0	0	1	1	4	2	2	1	1	11	23
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

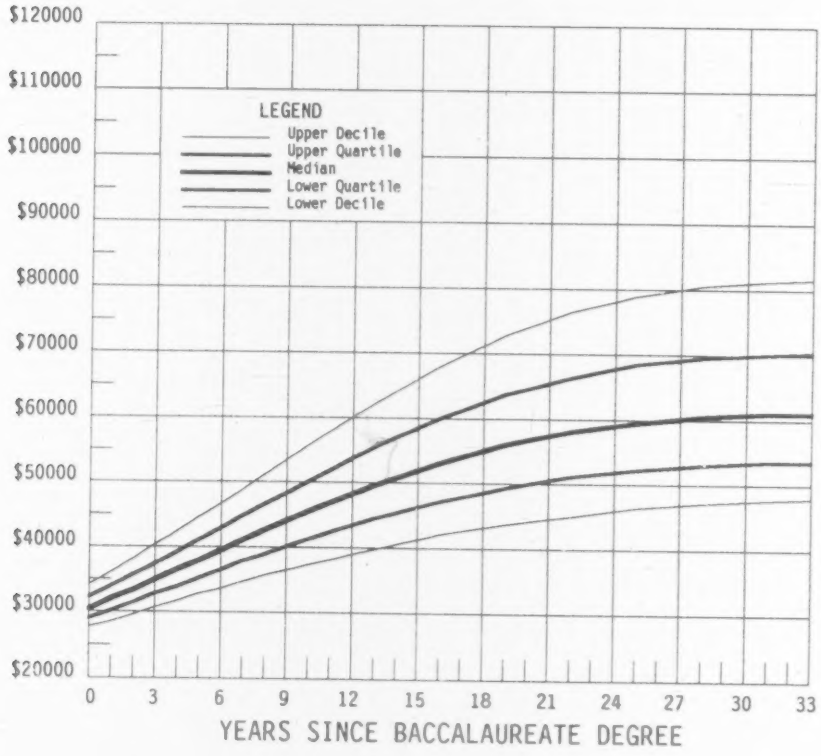
SALARY CURVES FOR ENGINEERS IN CONSULTING NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: CONSULTING, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33600	35550	37500	39500	41550	43550	45600	47600	49550	53250	58050	61600	63800	64800	64900	64400	63550	61650	58900
Upper Quartile	31150	32850	34600	36350	38100	39900	41650	43400	45150	48400	52750	56100	58350	59650	60100	60000	59550	58300	52200
Median	29050	30550	32000	33500	35050	36550	38050	39550	41000	43750	47400	50250	52300	53550	54100	54250	54050	53300	43800
Lower Quartile	27100	28350	29600	30850	32150	33400	34650	35850	37050	39300	42300	44650	46350	47500	48100	48300	48300	47900	35100
Lower Decile	25250	26300	27350	28400	29450	30500	31500	32500	33450	35250	37600	39400	40700	41550	42000	42150	42150	41850	30450
Mean	29300	30750	32250	33750	35300	36800	38350	39800	41250	44000	47600	50400	52350	53500	54000	54000	53750	52900	44200
Raw (Unsmoothed) Statistics																			
Upper Decile	32800	34400	37850	41000	41900	44250	46100	49150	49950	53250	58550	59850	62550	63250	63450	64500	64650	63900	58900
Upper Quartile	31150	32400	34850	36200	38000	39750	41700	43750	45950	49200	53050	55400	57300	58600	56850	59900	59850	59900	52200
Median	29200	30400	32250	33300	34800	36250	37350	39800	41150	44650	47800	49850	51500	52650	53600	54750	54150	54000	43800
Lower Quartile	26900	28100	30100	30900	32200	33400	33950	36150	37500	39550	42500	44550	45900	46500	48300	48100	48100	48700	35100
Lower Decile	24150	26300	28250	28850	29600	30550	31050	33050	34200	35350	37100	39450	40750	39400	43750	40750	42850	42800	30450
Mean	28950	30450	32550	34150	35300	36850	38050	40100	41650	44500	47800	50000	51600	52300	53850	53900	53850	54100	44200
Supporting Data																			
Total Number	252	311	289	269	335	293	281	252	263	734	550	583	450	377	288	252	209	373	6361
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	6	1	2	2	3	2	1	1	2	0	0	1	0	0	0	0	0	0	21

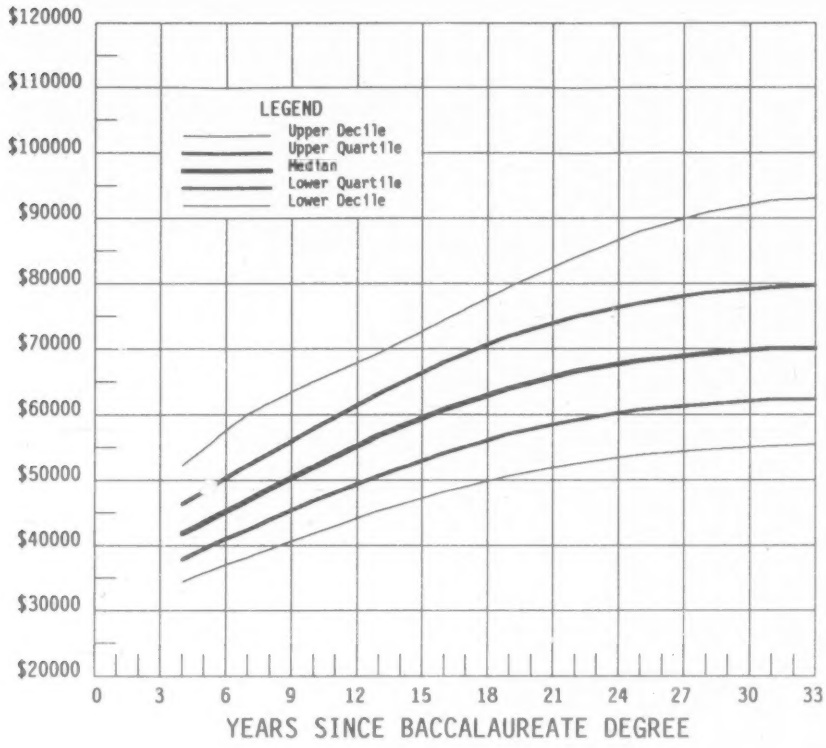
SALARY CURVES FOR ENGINEERS IN OTHER ENGINEERING SERVICES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: OTHER ENGINEERING SERVICES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34200	36100	38100	40200	42300	44450	46650	48900	51150	55650	62150	67950	72800	76500	79050	80600	81400	81800	71200
Upper Quartile	32200	33900	35600	37400	39200	41000	42850	44700	46550	50250	55400	59950	63650	66450	68400	69600	70200	70550	60900
Median	30500	32000	33450	34950	36500	38000	39550	41050	42550	45500	49600	53150	56000	58150	59600	60550	61050	61400	50900
Lower Quartile	29050	30250	31500	32750	34000	35250	36500	37750	38950	41250	44450	47200	49450	51100	52300	53100	53600	54000	41200
Lower Decile	27600	28650	29700	30700	31750	32750	33700	34700	35600	37400	39850	42000	43750	45200	46350	47150	47750	48400	34600
Mean	30800	32300	33800	35350	36900	38450	40050	41600	43200	46250	50600	54400	57500	59900	61650	62800	63450	64050	52450
Raw (Unsmoothed) Statistics																			
Upper Decile	33950	35650	38100	40900	42500	45200	46250	49600	51450	55250	61150	68300	73800	76050	79750	79500	81250	82100	71200
Upper Quartile	32500	33550	36050	37150	39300	40900	42700	44750	46750	50050	54800	60350	64300	66300	69350	69300	69300	70500	60900
Median	31000	31600	33800	34550	36700	38100	39200	40800	42550	45500	49450	53000	56350	58550	60100	60550	60650	61100	50900
Lower Quartile	29500	29600	31650	32550	34400	35450	36300	38100	38600	41200	44400	47050	49450	51150	53100	53050	53700	53650	41200
Lower Decile	28150	27350	30100	30800	32100	33000	33550	35100	35950	37400	39400	41950	43250	45500	47500	47150	48000	47850	34600
Mean	31000	31750	34250	35350	37100	38700	39700	41750	43200	46050	50050	54700	57850	59800	62700	62450	63250	63750	52450
Supporting Data																			
Total Number	341	376	360	412	484	477	464	477	501	1521	1384	1645	1426	1406	1140	1091	894	1568	15967
$125,000 or More	0	0	0	0	0	0	0	0	0	1	1	3	4	1	7	6	4	14	41
Less Than $22000	3	1	1	1	2	2	1	0	1	0	0	0	0	0	0	0	0	0	12

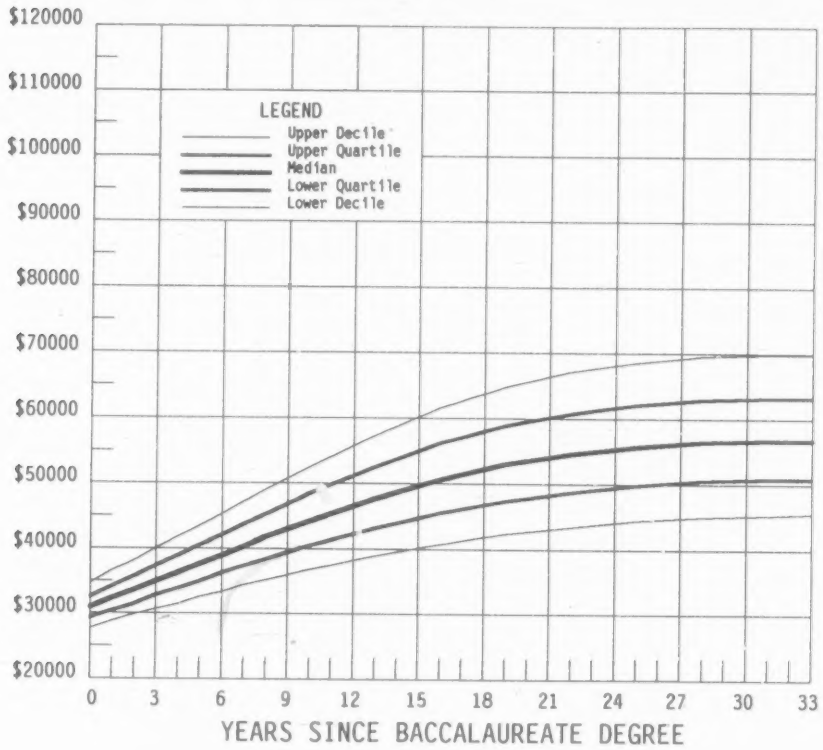
SALARY CURVES FOR ENGINEERS IN OTHER ENGINEERING SERVICES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: OTHER ENGINEERING SERVICES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	52250	54800	57450	60000	62650	65200	69350	74300	79400	84100	88000	90850	92700	94250	84400
Upper Quartile	0	0	0	0	46400	48350	50300	52250	54200	57950	63300	68000	71900	74950	77200	78700	79600	80500	73800
Median	0	0	0	0	41750	43500	45250	47000	48700	52100	56750	60800	64100	66550	68300	69400	70050	70500	64450
Lower Quartile	0	0	0	0	37950	39500	41000	42500	43950	46850	50800	54250	57050	59200	60700	61700	62300	62800	56050
Lower Decile	0	0	0	0	34350	35650	36950	38250	39500	41950	45350	48250	50650	52500	53850	54750	55300	55800	48800
Mean	0	0	0	0	44200	45650	47150	48650	50200	53200	57550	61600	65150	68050	70300	71900	72950	73850	66200
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	76000	68800	57200	61750	62600	64050	67250	76400	80750	83750	89650	88800	92550	93000	84400
Upper Quartile	0	0	0	0	48500	49250	51750	50950	55400	58250	61800	68450	72200	75300	77800	77250	80850	80150	73800
Median	0	0	0	0	44000	43400	45500	46300	49000	52350	55600	61350	64600	66800	68350	69000	67950	71350	64450
Lower Quartile	0	0	0	0	39500	40500	42350	42050	44000	46000	50800	54550	57050	60050	60350	61200	61100	63350	56050
Lower Decile	0	0	0	0	36000	37600	40550	37150	37600	41000	46350	47950	50850	52800	54500	52950	55400	56200	48800
Mean	0	0	0	0	46550	47700	47600	47500	50150	52800	56650	62350	65750	67900	71100	70700	72500	73850	66200
Supporting Data																			
Total Number	0	0	8	6	10	18	17	47	44	209	348	540	583	527	467	406	314	548	4092
$125,000 or More	0	0	0	0	0	0	0	0	0	0	1	1	4	1	7	5	4	10	33
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

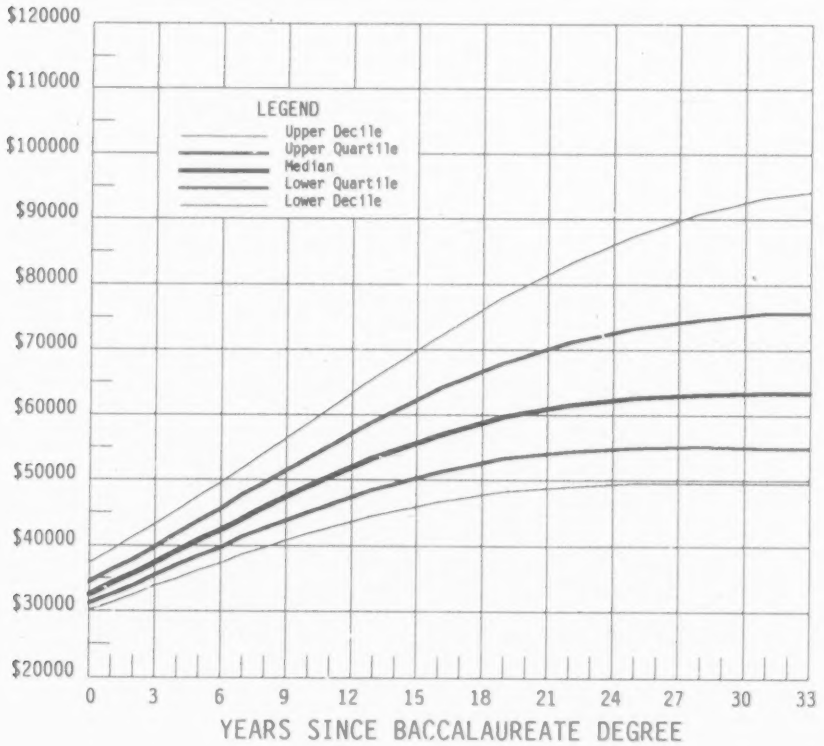
SALARY CURVES FOR ENGINEERS IN OTHER ENGINEERING SERVICES NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: OTHER ENGINEERING SERVICES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34700	36400	38150	39950	41750	43600	45400	47250	49050	52550	57400	61500	64750	67100	68650	69550	69950	69950	62450
Upper Quartile	32550	34100	35700	37300	38900	40550	42150	43800	45350	48450	52650	56150	58900	60900	62150	62850	63150	63150	55100
Median	30850	32200	33550	34950	36300	37700	39050	40400	41750	44300	47750	50650	52950	54650	55750	56450	56800	57000	46900
Lower Quartile	29300	30450	31600	32750	33900	35050	36200	37300	38350	40450	43250	45600	47500	48900	49900	50550	50950	51300	36600
Lower Decile	27850	28800	29750	30700	31600	32500	33400	34300	35150	36800	39000	40850	42400	43550	44400	45000	45450	45900	33300
Mean	31100	32450	33800	35200	36600	37950	39350	40700	42050	44650	48200	51200	53550	55350	56550	57300	57750	58000	47750
Raw (Unsmoothed) Statistics																			
Upper Decile	33950	35650	37750	40650	42000	44700	45900	48500	49900	52750	57000	60850	62750	65650	69300	70150	70950	70750	62450
Upper Quartile	32500	33550	35900	37050	39150	40700	42300	43800	46100	49000	52250	55700	57900	60550	62350	63150	63850	63300	55100
Median	31000	31600	33700	34500	36650	37900	39000	40450	42150	44800	47650	50200	52050	54650	55550	56650	57100	57250	46900
Lower Quartile	29500	29600	31600	32550	34350	35350	36200	38000	38400	40750	43150	45250	46400	48600	50450	50850	51500	51350	38600
Lower Decile	28150	27350	30100	30800	32050	32900	33450	34900	35800	37000	38200	40750	41250	43700	45450	45100	45950	45700	33300
Mean	31000	31750	33800	35200	36900	38350	39400	41150	42550	45000	47850	51000	52350	54900	56900	57550	58250	58300	47750
Supporting Data																			
Total Number	341	376	352	406	474	459	447	430	457	1312	1036	1105	843	879	673	685	580	1020	11875
$125,000 or More	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	1	0	4	8
Less Than $22000	3	1	1	1	2	2	1	0	1	0	0	0	0	0	0	0	0	0	12

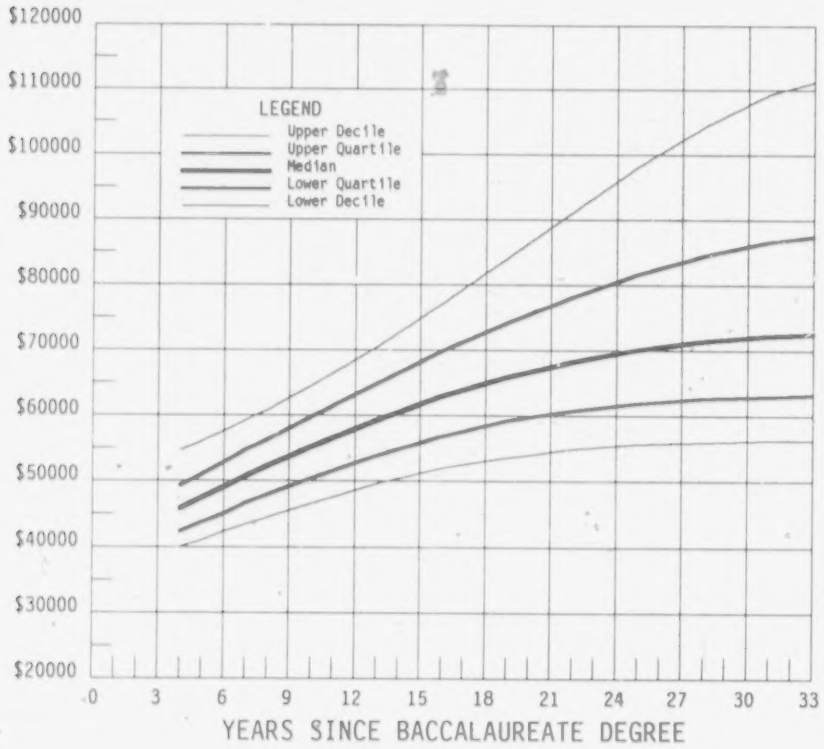
SALARY CURVES FOR ENGINEERS IN ELECTRIC & GAS UTILITIES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ELECTRIC & GAS UTILITIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	37300	39200	41200	43200	45300	47450	49600	51850	54100	58650	65500	72050	78050	83250	87550	90950	93400	96750	72200
Upper Quartile	34350	36150	37950	39800	41750	43650	45650	47600	49550	53450	59000	63900	68000	71150	73350	74800	75650	76250	60850
Median	32500	34100	35750	37400	39100	40750	42450	44100	45750	48950	53300	56900	59650	61550	62700	63300	63450	63200	51650
Lower Quartile	31100	32550	34000	35500	36950	38400	39850	41250	42600	45200	48600	51300	53200	54400	55000	55150	55050	54500	44350
Lower Decile	30000	31250	32500	33750	35000	36250	37450	38600	39750	41850	44550	46650	48150	49050	49550	49700	49600	49200	37350
Mean	33400	35000	36600	38200	39850	41500	43200	44850	46500	49800	54400	58500	61950	64650	66650	68050	68950	69850	54250
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	36950	37750	40350	43650	46100	48100	51000	52100	54700	58700	66500	70400	76850	79900	87200	95050	98900	97300	72200
Upper Quartile	33800	35150	37350	39550	41850	44150	46800	48750	50400	53750	59400	62900	66650	67800	73750	75850	79050	78000	60850
Median	32400	33550	35300	36750	39250	40850	42800	45550	46450	49050	53550	56000	59100	59900	62700	63950	65550	63850	51650
Lower Quartile	31050	32550	33550	34750	36800	38350	39650	42450	43850	45350	48400	50750	53000	53400	55000	55450	55750	55100	44350
Lower Decile	30250	31850	32200	33100	34750	35400	36850	39500	40700	42100	44500	46000	48050	48950	50100	50000	50100	48950	37350
Mean	33150	34650	36200	37600	40000	41550	43400	45750	47400	50000	54750	57550	61350	62650	66700	69350	71200	70450	54250
---------- Supporting Data ----------																			
Total Number	144	330	307	391	470	425	451	671	702	1680	1468	1538	1375	807	668	469	433	698	13027
$125,000 or More	0	0	0	0	0	0	0	0	0	1	2	1	6	6	9	14	15	30	84
Less Than $22000	0	1	0	2	0	0	0	1	0	0	1	0	0	0	0	0	0	0	5

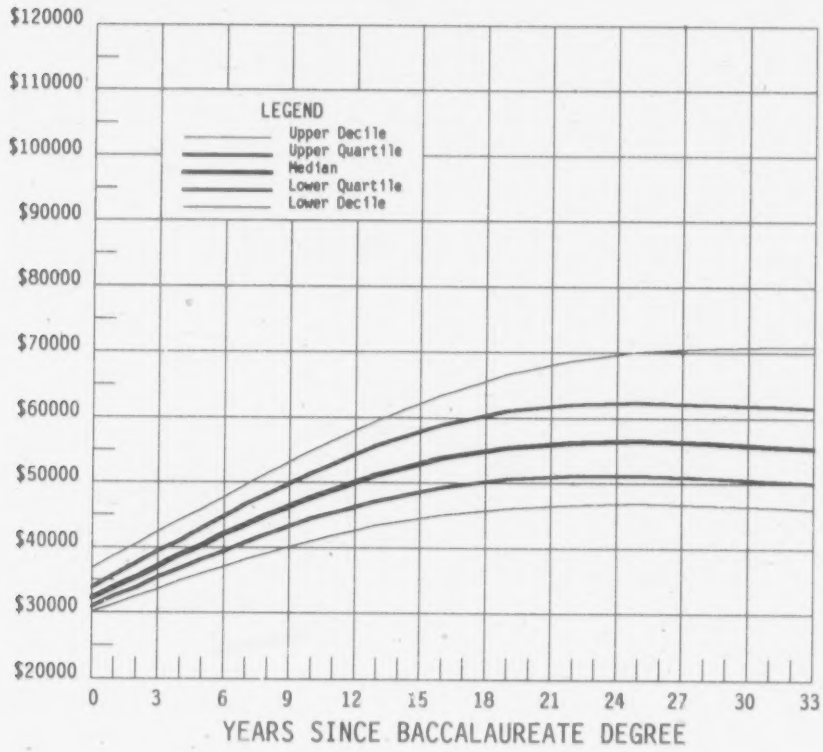
SALARY CURVES FOR ENGINEERS IN ELECTRIC & GAS UTILITIES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ELECTRIC & GAS UTILITIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	54700	56100	57600	59150	60850	64450	70450	77050	84050	91200	98050	104250	109400	116400	87600
Upper Quartile	0	0	0	0	49350	51050	52800	54550	56300	59800	64900	69750	74250	78200	81650	84500	86750	90150	73250
Median	0	0	0	0	46000	47550	49150	50700	52200	55200	59300	62900	65900	68250	70050	71350	72200	73250	63250
Lower Quartile	0	0	0	0	42400	43800	45200	46600	47950	50500	53950	56850	59100	60750	61900	62650	63050	63300	55600
Lower Decile	0	0	0	0	39900	41100	42350	43500	44650	46800	49600	51900	53650	54850	55650	56100	56300	56400	49600
Mean	0	0	0	0	47000	48450	49950	51450	52950	55900	60250	64400	68200	71550	74450	76800	78550	80750	67100
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	56600	53000	54200	56950	64000	65550	72150	75450	83950	88900	95200	107350	114900	116450	87600
Upper Quartile	0	0	0	0	48600	50000	51500	53900	58100	60050	65800	68900	74500	76850	80800	86500	87600	90000	73250
Median	0	0	0	0	45600	46000	47550	50350	53250	55800	60150	62500	65300	66600	70950	72200	73150	73050	63250
Lower Quartile	0	0	0	0	43200	44000	43300	46250	47700	51000	54650	56550	58800	59900	62350	63450	63050	63250	55600
Lower Decile	0	0	0	0	41500	39800	40650	44050	44200	46850	50400	51700	53650	53550	56100	57300	55150	56750	49600
Mean	0	0	0	0	48150	47100	47650	51250	53950	56300	61100	63550	68300	70000	74700	78300	79450	80450	67100
Supporting Data																			
Total Number	1	8	11	15	37	40	62	103	130	349	498	648	613	377	346	267	251	396	4152
$125,000 or More	0	0	0	0	0	0	0	0	0	1	2	1	6	6	9	14	15	30	84
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

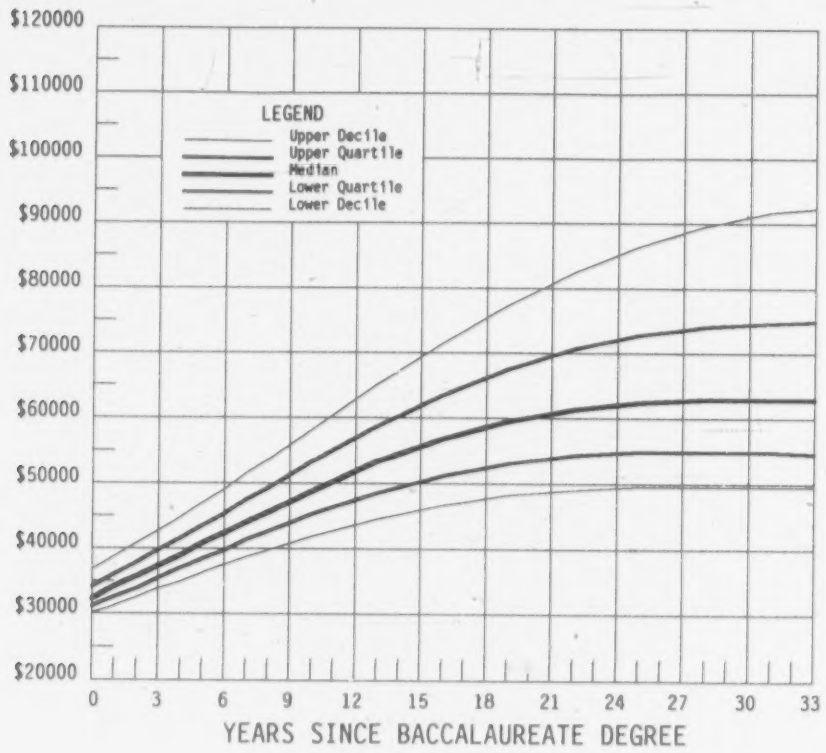
SALARY CURVES FOR ENGINEERS IN ELECTRIC & GAS UTILITIES NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ELECTRIC & GAS UTILITIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	36900	38650	40450	42300	44150	46000	47800	49650	51450	54900	59600	63550	66600	68700	70050	70750	71000	70850	60350
Upper Quartile	34000	35750	37550	39350	41150	42950	44750	46550	48250	51500	55650	58850	60950	62100	62450	62250	61800	60500	54050
Median	32350	33950	35550	37200	38800	40400	42000	43550	45000	47800	51300	53900	55500	56300	56450	56200	55700	54500	47750
Lower Quartile	31050	32500	33950	35350	36800	38200	39550	40850	42100	44450	47300	49350	50600	51150	51150	50850	50400	49300	41250
Lower Decile	30000	31250	32450	33650	34850	36000	37150	38250	39250	41150	43500	45150	46200	46750	46850	46700	46400	45700	35400
Mean	33000	34550	36150	37700	39250	40850	42350	43850	45300	48050	51600	54300	56150	57250	57700	57700	57450	56650	48250
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	36800	37050	39900	42750	44250	47050	49850	50000	51900	55250	59500	62050	65600	65500	70550	71200	76650	72950	60350
Upper Quartile	33800	35000	37100	39250	40900	43450	45900	47850	48850	51750	55250	57350	60450	60700	62600	62450	64600	61900	54050
Median	32350	33550	35200	36600	38950	40500	42300	44950	45850	47950	50850	52900	55100	55550	56800	55650	57200	55700	47750
Lower Quartile	31050	32550	33500	34700	36600	38150	39250	42050	43250	44750	47050	48300	50050	51100	51150	50950	51500	50100	41250
Lower Decile	30250	31850	32200	33050	34650	35250	36300	39050	40100	41600	43200	44300	46200	47300	47400	46350	47400	45250	35400
Mean	33000	34250	35750	37250	39300	41000	42700	44750	45900	48300	51500	53200	55750	56200	58100	57550	59850	57350	48250
---------- Supporting Data ----------																			
Total Number	143	322	296	376	433	385	389	568	572	1331	970	890	762	430	322	202	182	302	8875
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	1	0	2	0	0	0	1	0	0	1	0	0	0	0	0	0	0	5

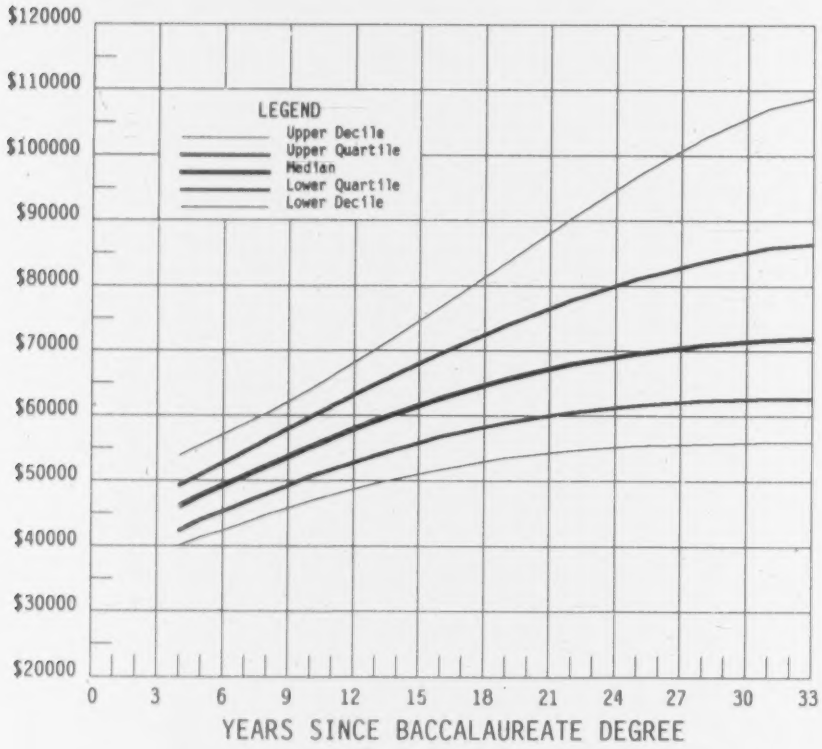
SALARY CURVES FOR ENGINEERS IN ELECTRIC UTILITIES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ELECTRIC UTILITIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	36850	38750	40700	42750	44850	47000	49200	51450	53700	58250	65100	71550	77400	82400	86400	89500	91700	94450	71450
Upper Quartile	34200	35950	37800	39650	41550	43500	45450	47450	49400	53300	58800	63600	67600	70600	72700	74000	74750	75150	60650
Median	32400	34050	35650	37350	39000	40700	42400	44050	45700	48900	53200	56750	59450	61300	62350	62900	63000	62650	51650
Lower Quartile	31100	32550	34000	35500	36950	38400	39850	41250	42650	45250	48650	51300	53150	54300	54850	55000	54850	54250	44400
Lower Decile	30000	31300	32550	33800	35050	36300	37500	38700	39800	41950	44650	46750	48250	49150	49550	49700	49600	49150	37400
Mean	33300	34900	36450	38100	39700	41400	43050	44700	46350	49550	54150	58200	61550	64200	66150	67450	68300	69150	54000
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	35250	37550	40250	43050	45600	47600	50700	52050	54500	58450	65650	69950	75650	79100	86900	94400	97300	94750	71450
Upper Quartile	33500	35100	37300	39300	41500	44[illegible]	46600	48700	50350	53550	59150	62750	65950	67300	73400	75650	78550	76400	60650
Median	32200	33550	35350	36650	39150	40800	42700	45550	46500	48950	53400	55950	58800	59750	62550	63600	64950	63200	51650
Lower Quartile	31000	32550	33650	34700	36750	38350	39600	42500	44050	45300	48450	50800	52850	53350	55000	55300	55600	54800	44400
Lower Decile	30250	31800	32300	33150	34700	35500	36900	39550	41050	42150	44650	46150	47950	49050	50150	49900	50150	48950	37400
Mean	32850	34600	36250	37450	39700	41450	43200	45700	47400	49750	54350	57400	60750	62200	66600	69050	70800	69400	54000
---------- Supporting Data ----------																			
Total Number	128	317	292	368	446	403	431	629	662	1595	1391	1488	1310	778	647	444	407	661	12397
$125,000 or More	0	0	0	0	0	0	0	0	0	1	1	0	3	4	9	13	14	25	70
Less Than $22000	0	1	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	4

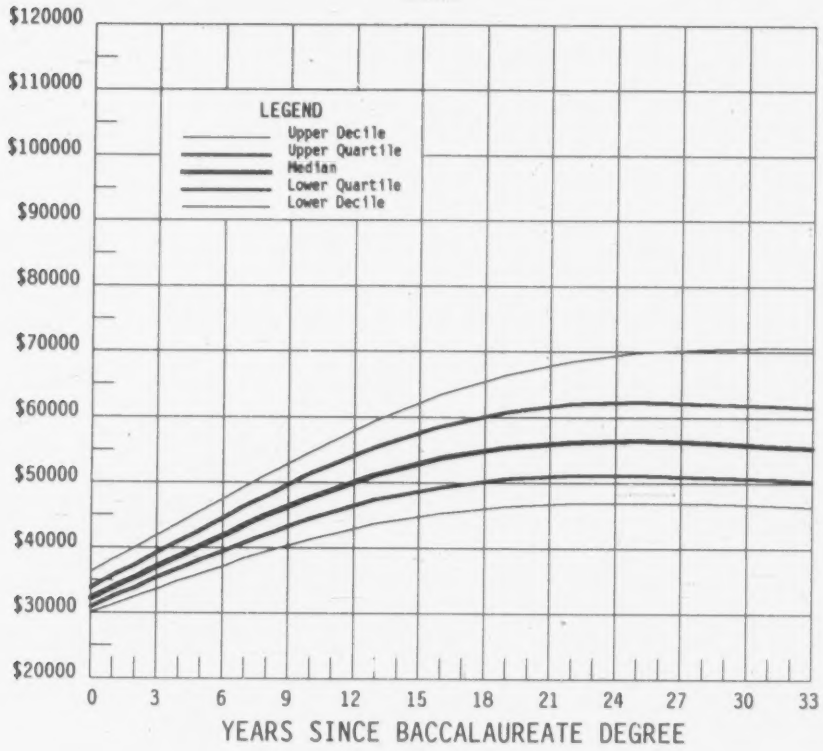
SALARY CURVES FOR ENGINEERS IN ELECTRIC UTILITIES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ELECTRIC UTILITIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	53800	55350	56950	58650	60400	64100	70200	76700	83550	90350	96800	102550	107200	113500	86200
Upper Quartile	0	0	0	0	49250	51000	52750	54500	56250	59700	64800	69550	73900	77750	81000	83650	85750	88800	72750
Median	0	0	0	0	46100	47700	49250	50800	52300	55200	59250	62750	65650	67950	69650	70850	71700	72600	63000
Lower Quartile	0	0	0	0	42500	43900	45300	46700	48050	50550	53950	56800	59000	60550	61650	62300	62650	62850	55500
Lower Decile	0	0	0	0	39950	41200	42400	43550	44700	46850	49650	51850	53550	54700	55450	55850	56000	56000	49600
Mean	0	0	0	0	46650	48150	49650	51150	52700	55650	60000	64050	67800	71050	73850	76050	77700	79800	66600
Raw.(Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	54800	53300	54050	56150	63900	65250	71600	75250	83200	88100	94900	106550	114650	111450	86200
Upper Quartile	0	0	0	0	48500	50100	51450	53900	57950	60050	65600	68750	74050	76200	80450	86000	87000	88250	72750
Median	0	0	0	0	45650	46100	47700	50500	53300	55850	60150	62450	64850	66200	70800	72000	72300	72400	63000
Lower Quartile	0	0	0	0	43150	44150	43600	46450	47600	51150	54600	56550	58550	59900	62150	62950	62600	62800	55500
Lower Decile	0	0	0	0	41450	40200	40950	43950	44250	46850	50350	51800	53500	53500	55900	56950	54700	56400	49600
Mean	0	0	0	0	46500	47300	47750	51000	53750	56350	60650	63350	67500	69350	74600	78000	78900	79150	66600
Supporting Data																			
Total Number	1	7	11	15	34	39	59	99	123	321	468	627	571	352	333	248	231	364	3903
$125,000 or More	0	0	0	0	0	0	0	0	0	1	1	0	3	4	9	13	14	25	70
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

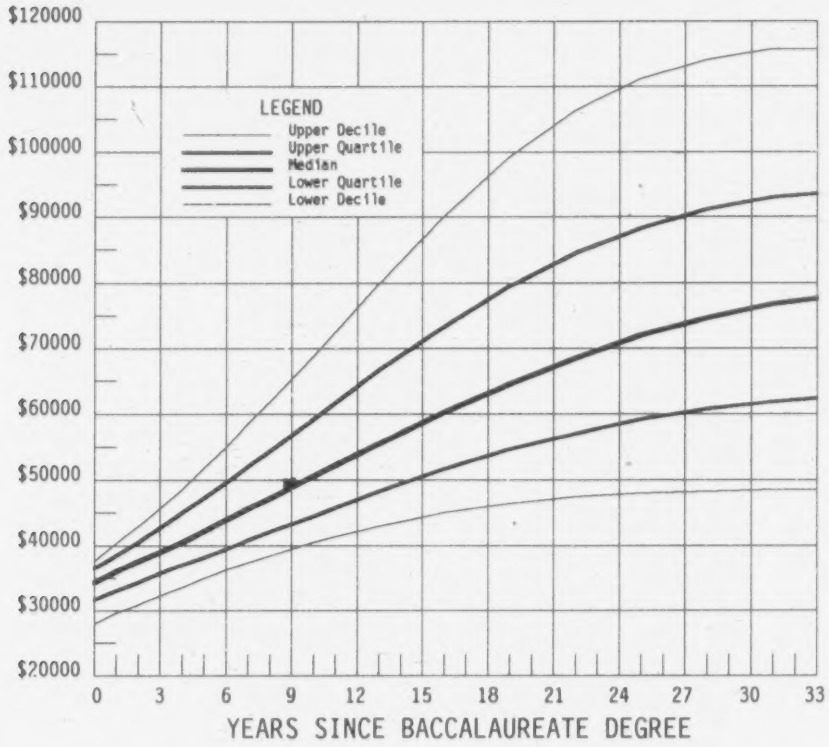
SALARY CURVES FOR ENGINEERS IN ELECTRIC UTILITIES
NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: ELECTRIC UTILITIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	36300	38100	39900	41750	43650	45500	47400	49250	51100	54600	59400	63400	66500	68600	69850	70500	70700	70400	60250
Upper Quartile	33850	35600	37400	39200	41000	42800	44600	46350	48100	51350	55550	58750	60900	62050	62400	62250	61800	60550	54050
Median	32300	33900	35500	37150	38750	40350	41950	43500	44950	47750	51250	53850	55550	56350	56500	56250	55800	54600	47800
Lower Quartile	31050	32500	33900	35350	36800	38200	39550	40850	42150	44450	47350	49450	50700	51250	51300	51000	50550	49450	41350
Lower Decile	30000	31250	32450	33700	34900	36100	37200	38300	39350	41300	43650	45350	46400	46900	47000	46850	46550	45750	35450
Mean	32900	34450	36000	37600	39150	40700	42200	43700	45150	47900	51400	54150	56050	57200	57700	57750	57550	56800	48200
Raw (Unsmoothed) Statistics																			
Upper Decile	35050	36800	39700	41900	43800	46600	49450	49850	51750	55050	59100	61850	64900	65550	70150	71600	77100	72750	60250
Upper Quartile	33450	34950	37050	39000	40750	43300	45650	47800	48850	51550	55100	57300	60250	60750	62500	62600	65000	61800	54050
Median	32200	33500	35200	36500	38900	40450	42150	45000	45900	47850	50800	52950	55000	55650	56850	55750	57450	55750	47800
Lower Quartile	30950	32550	33550	34650	36550	38150	39200	42100	43450	44750	47150	48350	50000	51200	51300	51050	51700	50250	41350
Lower Decile	30250	31750	32300	33050	34600	35300	36350	39150	40500	41700	43550	44350	46150	47400	47600	46400	47500	45600	35450
Mean	32700	34150	35750	37100	39150	40850	42500	44700	45950	48100	51200	53100	55500	56300	58100	57750	60150	57400	48200
Supporting Data																			
Total Number	127	310	281	353	412	364	372	530	539	1274	923	861	739	426	314	196	176	297	8494
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	1	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	4

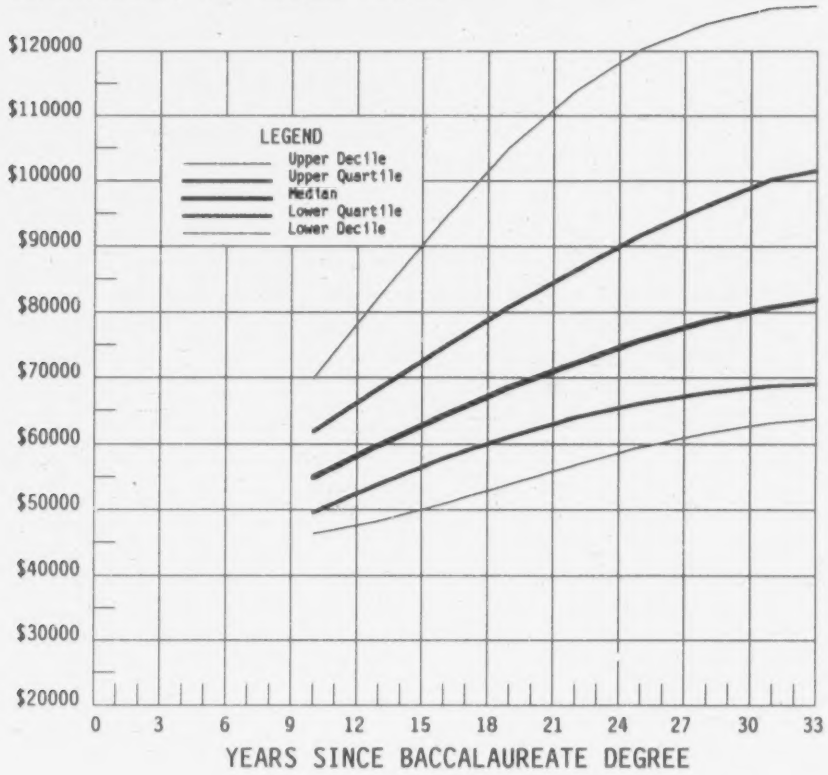
SALARY CURVES FOR ENGINEERS IN GAS UTILITIES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: GAS UTILITIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	37650	40200	42850	45700	48650	51750	54950	58300	61750	68850	79750	90150	99200	106300	111250	114200	115650	115900	85400
Upper Quartile	36500	38500	40600	42750	44950	47250	49600	52000	54400	59300	66600	73450	79500	84550	88400	91200	93100	95150	69350
Median	34500	35950	37500	39050	40650	42250	43900	45550	47200	50550	55500	60250	64650	68550	71900	74650	76800	79950	52650
Lower Quartile	31850	33100	34350	35650	36950	38200	39500	40800	42100	44650	48300	51650	54600	57100	59100	60700	61900	63550	42900
Lower Decile	28100	29550	30950	32300	33650	34950	36200	37350	38450	40500	43050	45000	46400	47350	48000	48350	48550	48700	36400
Mean	34200	35900	37700	39500	41400	43300	45250	47200	49200	53200	59050	64500	69350	73400	76600	78950	80650	82700	58700
Raw (Unsmoothed) Statistics																			
Upper Decile	37700	39950	41600	46100	49700	55100	55200	52400	57600	76000	84350	81000	101900	110000	89000	103750	110850	138000	85400
Upper Quartile	37300	35900	39000	43800	47450	51500	52600	49350	51900	56600	76150	70500	78850	85000	82500	81250	86250	109800	69350
Median	36600	33800	35000	39100	42500	42000	47400	45100	44850	51600	56200	56550	68200	68800	70000	69000	73500	85600	52650
Lower Quartile	32500	32100	32000	35300	38950	37500	41950	41950	40700	46050	46550	49100	58700	54500	58000	59650	59500	66600	42900
Lower Decile	28700	29150	29600	33000	35650	32400	36200	38200	36800	41600	41450	44250	51300	47900	45200	51050	49550	43550	36400
Mean	34900	34900	35400	39300	45400	43600	46700	46150	46950	53400	61200	61200	72850	73400	70350	74300	77050	89500	58700
Supporting Data																			
Total Number	17	17	16	25	25	22	21	42	42	90	79	54	67	32	24	27	27	37	664
$125,000 or More	0	0	0	0	0	0	0	0	0	0	1	1	3	2	0	1	1	5	14
Less Than $22000	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1

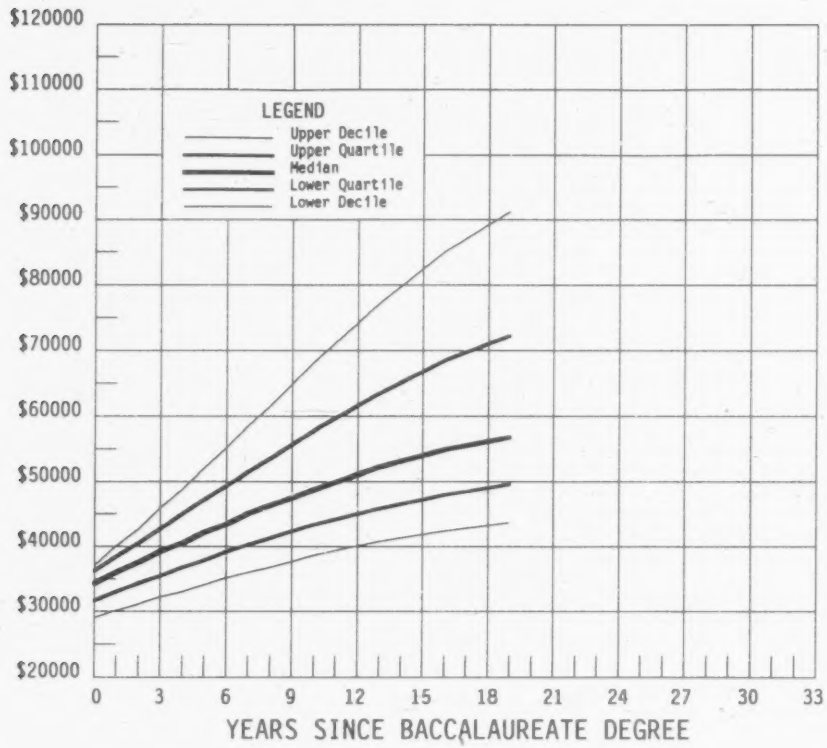
SALARY CURVES FOR ENGINEERS IN GAS UTILITIES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: GAS UTILITIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	0	0	0	0	70000	82150	94100	104950	113850	120300	124400	126600	127600	112150
Upper Quartile	0	0	0	0	0	0	0	0	0	62000	68300	74600	80700	86450	91700	96300	100150	106350	83500
Median	0	0	0	0	0	0	0	0	0	55000	59700	64200	68400	72250	75650	78550	80900	84600	68300
Lower Quartile	0	0	0	0	0	0	0	0	0	49550	53850	57800	61150	63900	66100	67700	68850	70250	57400
Lower Decile	0	0	0	0	0	0	0	0	0	46350	48350	50950	53850	56750	59400	61600	63250	65100	48600
Mean	0	0	0	0	0	0	0	0	0	57650	64150	70250	75650	80100	83550	86100	87850	89900	74700
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	0	0	0	0	67100	89500	84000	117500	116250	97500	112500	116650	143000	112150
Upper Quartile	0	0	0	0	0	0	0	0	0	59850	72500	73000	82500	88100	83750	90000	95000	114300	83500
Median	0	0	0	0	0	0	0	0	0	54500	59700	65350	70000	70800	77000	73350	78000	88350	68300
Lower Quartile	0	0	0	0	0	0	0	0	0	48950	55050	56500	63600	59500	67000	66400	72000	70000	57400
Lower Decile	0	0	0	0	0	0	0	0	0	45350	51100	47600	57600	49700	59000	64000	68000	64200	48600
Mean	0	0	0	0	0	0	0	0	0	55800	67450	69000	78900	78400	77000	81050	85400	95150	74700
Supporting Data																			
Total Number	0	1	0	0	3	1	3	4	8	29	31	22	42	27	15	20	20	32	258
$125,000 or More	0	0	0	0	0	0	0	0	0	0	1	1	3	2	0	1	1	5	14
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

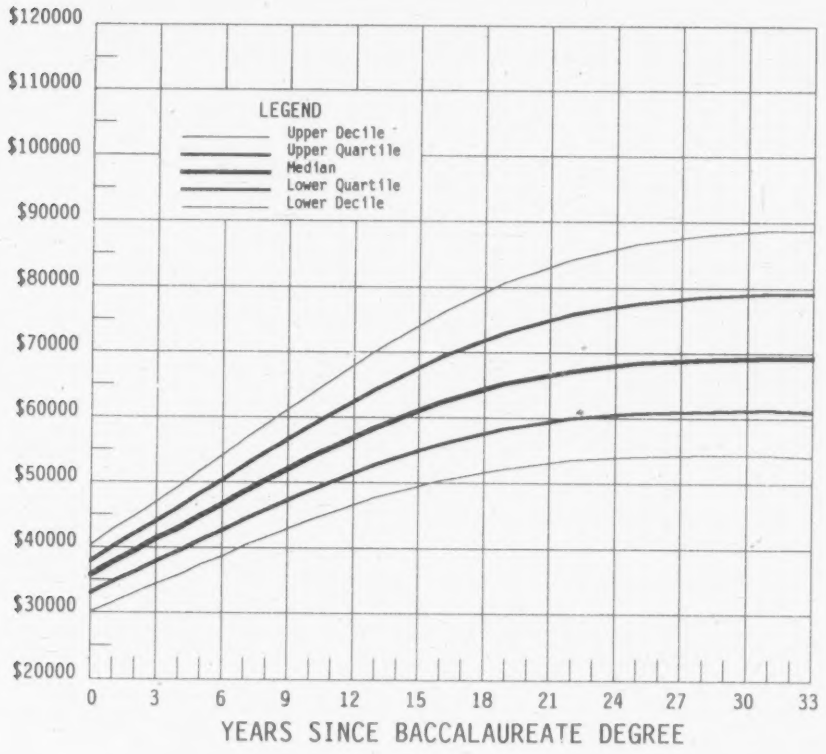
SALARY CURVES FOR ENGINEERS IN GAS UTILITIES
NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: GAS UTILITIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	37150	39900	42750	45750	48800	51950	55200	58450	61700	68150	77200	85000	91150	0	0	0	0	0	71500
Upper Quartile	36300	38400	40600	42750	45000	47200	49400	51550	53700	57800	63500	68400	72400	0	0	0	0	0	53700
Median	34400	36000	37550	39150	40650	42150	43600	45000	46350	48850	52150	54850	56900	0	0	0	0	0	45950
Lower Quartile	31800	33050	34300	35500	36750	37950	39100	40250	41350	43350	46000	48000	49500	0	0	0	0	0	38950
Lower Decile	29050	30100	31100	32150	33150	34100	35100	36000	36900	38600	40750	42500	43800	0	0	0	0	0	34550
Mean	34000	35750	37500	39250	41000	42750	44450	46150	47800	50950	55200	58850	61800	0	0	0	0	0	48550
Raw (Unsmoothed) Statistics																			
Upper Decile	37700	40100	41600	46100	49300	55200	55200	52100	54950	79600	83500	79750	80850	0	0	0	0	0	71500
Upper Quartile	37300	36000	39000	43800	47300	52250	52250	49350	49250	54850	77600	60000	73500	0	0	0	0	0	53700
Median	36600	34000	35000	39100	42000	42500	47750	44600	43550	50700	51800	52000	59500	0	0	0	0	0	45950
Lower Quartile	32500	32400	32000	35300	38400	37250	42500	41700	39500	44100	44000	47000	52250	0	0	0	0	0	38950
Lower Decile	28700	29600	29600	33000	35450	32200	35800	37600	36250	39650	37850	41300	47750	0	0	0	0	0	34550
Mean	34900	35300	35400	39300	42500	43800	46900	44950	44800	52300	57100	55800	62700	0	0	0	0	0	48550
Supporting Data																			
Total Number	17	16	16	25	22	21	18	38	34	61	48	32	25	5	9	7	7	5	406
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1

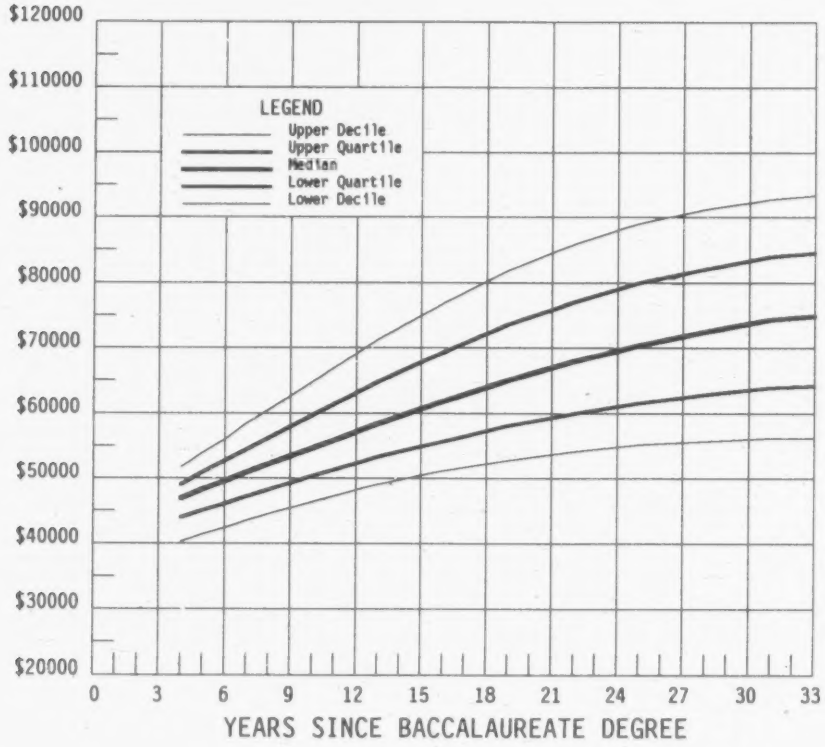
SALARY CURVES FOR ENGINEERS IN RESEARCH LABORATORIES
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: RESEARCH LABORATORIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	40400	42550	44750	47050	49350	51700	54100	56500	58900	63600	70250	76100	80800	84300	86650	88050	88700	88900	77850
Upper Quartile	38000	40000	42000	44050	46100	48250	50350	52450	54550	58700	64400	69250	73150	75900	77700	78700	79100	79050	66700
Median	35850	37600	39400	41200	43050	44900	46700	48550	50300	53750	58450	62300	65300	67300	68550	69150	69300	69000	56700
Lower Quartile	33050	34650	36250	37900	39500	41150	42750	44350	45900	48900	52850	56050	58400	59950	60800	61150	61200	60700	47850
Lower Decile	30100	31550	32950	34400	35850	37300	38750	40150	41550	44150	47600	50350	52300	53600	54250	54450	54400	53850	40350
Mean	35700	37450	39250	41100	42950	44800	45650	48500	50350	53850	58750	62850	66050	68300	69750	70550	70900	70800	58150
Raw (Unsmoothed) Statistics																			
Upper Decile	39450	41000	44300	46400	49600	52800	54500	58350	60850	64900	69400	73900	78150	82450	85550	89100	91300	90600	77850
Upper Quartile	35500	37600	41800	43950	46900	49700	51300	54600	56950	59700	63000	66400	70450	75250	77050	80050	80450	80850	66700
Median	33600	34750	38450	41800	44000	46400	47500	50900	52400	54950	57400	60000	62100	66250	66950	70250	70650	71600	56700
Lower Quartile	32450	32750	34850	38350	40100	41650	43100	45750	47700	50300	52350	54400	56050	58850	59050	61300	62150	63150	47850
Lower Decile	31050	30300	31600	34600	35900	37650	39100	41250	43000	45100	47200	49150	50600	53350	53150	54800	55050	55050	40350
Mean	34650	35350	38400	41250	43450	45800	47150	50200	52250	55100	57950	60800	63300	67300	68650	71550	72250	72700	58150
Supporting Data																			
Total Number	274	641	849	1061	1160	1112	1116	1261	1112	3677	2830	2391	2118	1782	2170	1512	1295	2229	28595
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	2	2	9
Less Than $22000	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2

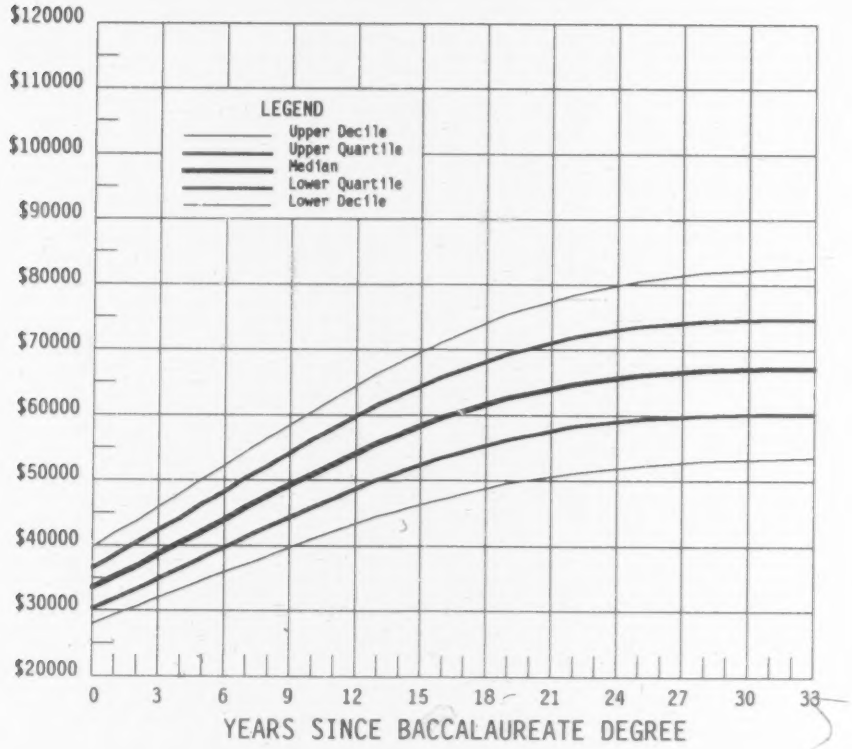
SALARY CURVES FOR ENGINEERS IN RESEARCH LABORATORIES SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: RESEARCH LABORATORIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	0	0	0	0	51750	53950	56100	58300	60500	64850	71100	76800	81750	85800	88950	91250	92900	94850	79700
Upper Quartile	0	0	0	0	49150	50900	52700	54450	56250	59700	64750	69400	73500	77050	79950	82250	84000	86450	67850
Median	0	0	0	0	47000	48250	49550	50850	52150	54650	58350	61850	65050	67900	70450	72600	74300	77050	57400
Lower Quartile	0	0	0	0	43950	45050	46150	47250	48300	50350	53250	55850	58100	60050	61650	62950	63900	65350	49400
Lower Decile	0	0	0	0	40400	41450	42500	43550	44550	46450	49000	51100	52850	54150	55100	55800	56250	56750	42550
Mean	0	0	0	0	46650	48100	49550	51000	52450	55250	59250	62950	66250	69100	71450	73400	74850	77000	59600
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	0	0	0	0	49950	53750	55300	59100	62200	66600	71050	75500	79300	83850	88150	92350	96650	97250	79700
Upper Quartile	0	0	0	0	47850	50450	52000	55350	58050	61050	64150	67900	71900	77300	79450	83400	86450	87350	67850
Median	0	0	0	0	45200	47950	48800	52150	53600	56000	58300	60650	62250	68150	70100	74050	76750	78050	57400
Lower Quartile	0	0	0	0	42300	44800	45250	48350	49400	51600	53450	55300	56150	59200	61150	62300	65300	68150	49400
Lower Decile	0	0	0	0	39400	41450	41750	44500	44850	47450	48600	50600	51350	54250	55700	55350	57600	57400	42550
Mean	0	0	0	0	45250	47800	48700	51950	53650	56550	59150	62000	64000	68850	71150	74050	77250	78350	59600
---------- Supporting Data ----------																			
Total Number	124	389	436	659	724	694	642	845	734	2506	1903	1588	1428	1155	1290	852	638	920	17519
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	2	2	9
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

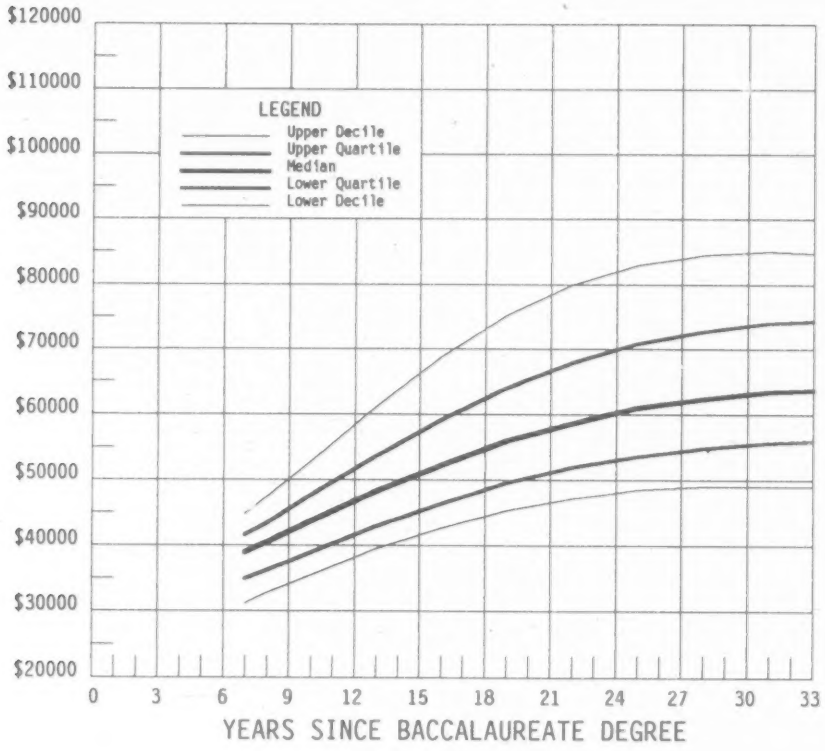
SALARY CURVES FOR ENGINEERS IN RESEARCH LABORATORIES NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: RESEARCH LABORATORIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	39850	41800	43800	45900	47950	50100	52200	54300	56450	60550	66300	71300	75350	78400	80500	81800	82500	82900	74350
Upper Quartile	36650	38500	40450	42400	44350	46350	48350	50350	52350	56200	61500	66000	69450	71950	73500	74300	74600	74400	65250
Median	33500	35200	36900	38700	40450	42250	44050	45850	47600	51050	55750	59700	62800	64900	66250	66900	67150	66950	55400
Lower Quartile	30300	31800	33350	34950	36550	38150	39750	41350	42900	45950	50150	53700	56400	58300	59450	60050	60250	60050	44950
Lower Decile	28050	29350	30650	31950	33250	34600	35900	37200	38500	41000	44400	47300	49600	51250	52400	53100	53450	53650	37100
Mean	33700	35350	37050	38800	40550	42300	44100	45850	47600	51000	55700	59700	62850	65150	66650	67500	67900	67950	55800
Raw (Unsmoothed) Statistics																			
Upper Decile	38050	41850	44100	44500	47950	51500	52950	55450	58150	61150	65350	69250	74550	78050	80450	82650	81250	83200	74350
Upper Quartile	35650	37350	40200	41850	44650	46600	49750	51850	54350	57200	60600	64400	67850	70750	71850	74800	74100	75500	65250
Median	34250	34050	35950	38600	40800	41850	44850	46300	49700	52350	55400	58700	61850	64100	63150	67150	67300	68100	55400
Lower Quartile	32550	30350	32450	34650	35900	38100	40800	41700	44950	47100	50150	52550	55550	58050	56600	60450	59850	61150	44950
Lower Decile	30850	28000	29800	31350	32850	35000	36750	37350	40450	41300	44600	46400	49000	51100	50850	54250	52950	53900	37100
Mean	34650	34250	36450	38250	40450	42500	44950	46600	49450	51850	55400	58450	61850	64550	64900	68200	67350	68700	55800
Supporting Data																			
Total Number	149	251	415	402	436	416	474	420	379	1171	929	804	692	627	877	657	657	1310	11078
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2

SALARY CURVES FOR ENGINEERS IN OTHER NON-MANUFACTURING INDUSTRIES
ALL ENGINEERS, ALL DEGREE LEVELS

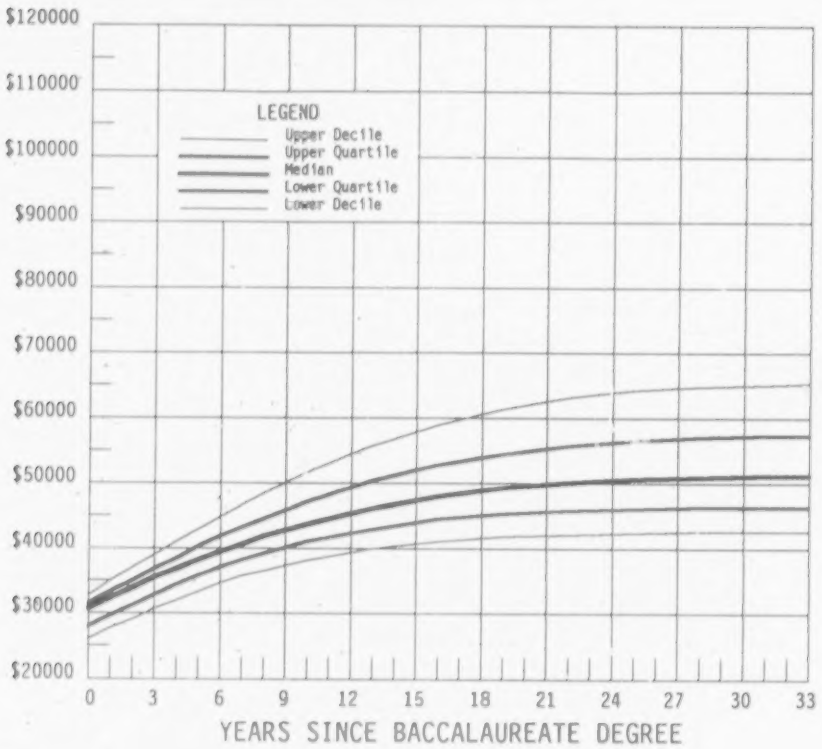


1990 ENGINEERING SALARY STATISTICS: OTHER NON-MANUFACTURING INDUSTRIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	0	0	44800	47450	52900	61100	68750	75150	79900	82950	84500	85000	84250	76200
Upper Quartile	0	0	0	0	0	0	0	41600	43550	47600	53600	59150	64000	67950	70900	72900	74200	75400	64700
Median	0	0	0	0	0	0	0	39050	40650	43750	48250	52350	55900	58750	60950	62500	63550	64700	51600
Lower Quartile	0	0	0	0	0	0	0	34900	36250	39000	42950	46450	49500	51900	53650	54900	55750	56600	42500
Lower Decile	0	0	0	0	0	0	0	31300	32700	35500	39400	42800	45450	47300	48450	49000	49150	48800	35900
Mean	0	0	0	0	0	0	0	38450	40250	43850	49150	53900	57950	61150	63400	64850	65700	66300	54150
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	0	0	45500	0	53900	58800	66400	70400	96250	86250	85500	78800	83650	76200
Upper Quartile	0	0	0	0	0	0	0	43500	0	46400	52600	64000	55600	74500	74500	74500	73500	74000	64700
Median	0	0	0	0	0	0	0	41000	0	42500	48200	53000	53000	58000	66000	66000	63350	63000	51600
Lower Quartile	0	0	0	0	0	0	0	35000	0	38600	44300	45000	48500	49250	55750	57500	57000	55600	42500
Lower Decile	0	0	0	0	0	0	0	32000	0	34400	41450	40400	44600	44750	53500	50900	47900	48200	35900
Mean	0	0	0	0	0	0	0	39650	0	42900	49900	52700	54450	64250	66800	66600	64250	65400	54150
Supporting Data																			
Total Number	1	4	5	4	4	5	5	10	8	24	26	16	14	15	15	19	13	38	226
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CURVES AND TABLES FOR GOVERNMENT

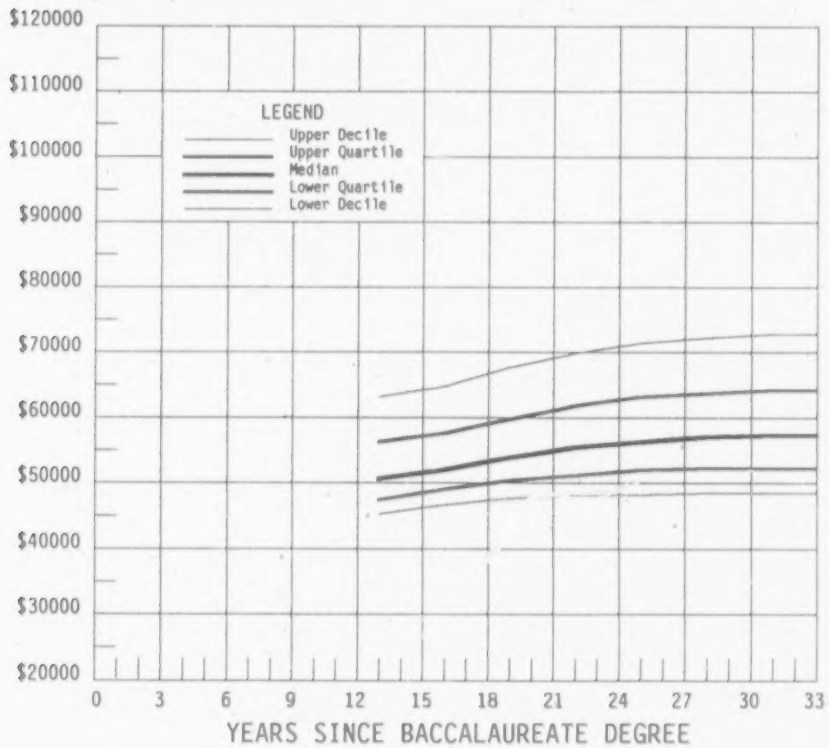
SALARY CURVES FOR ENGINEERS IN FEDERAL GOVERNMENT
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: FEDERAL GOVERNMENT

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	32850	34900	36950	39000	41000	42950	44900	46700	48450	51700	55850	59050	61400	63100	64200	64850	65200	65500	56600
Upper Quartile	31450	33250	35050	36800	38500	40150	41750	43250	44650	47200	50400	52800	54500	55700	56500	56950	57250	57400	49100
Median	30650	32250	33800	35350	36750	38150	39450	40650	41800	43800	46250	48000	49250	50100	50650	50950	51150	51250	42150
Lower Quartile	28000	29700	31300	32900	34350	35750	37000	38200	39250	41050	43050	44400	45250	45800	46100	46300	46400	46450	37150
Lower Decile	26050	27650	29200	30700	32100	33400	34600	35700	36650	38250	40000	41100	41800	42200	42400	42550	42600	42650	31650
Mean	30200	31950	33650	35300	36900	38400	39850	41150	42400	44650	47250	49200	50550	51400	52000	52350	52500	52650	43750
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	31950	35950	35900	42800	40700	42300	43900	44400	54150	53000	55600	55450	61850	64500	64200	64650	67350	66100	56600
Upper Quartile	31400	31950	35400	36800	39600	40400	42600	42450	43950	47650	49300	49950	55750	56000	58700	55700	61550	55950	49100
Median	30400	30950	34550	34850	37650	38900	40450	40200	40850	43600	44750	47150	49150	49550	52850	51700	52800	51200	42150
Lower Quartile	26950	30000	31500	31600	35350	36850	38400	38400	38750	41150	40000	42000	45900	46150	48850	47800	47400	46650	37150
Lower Decile	25100	26450	30200	30250	33100	34550	36100	36100	36750	37800	36150	38250	42200	43700	46450	44000	43900	41500	31650
Mean	29450	31350	34100	36150	37400	38750	40450	40200	43350	45000	45350	46800	50750	51950	54350	52900	54400	52450	43750
---------- Supporting Data ----------																			
Total Number	106	110	158	137	243	227	218	208	139	216	288	234	217	221	174	135	96	79	3206
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	8	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	12

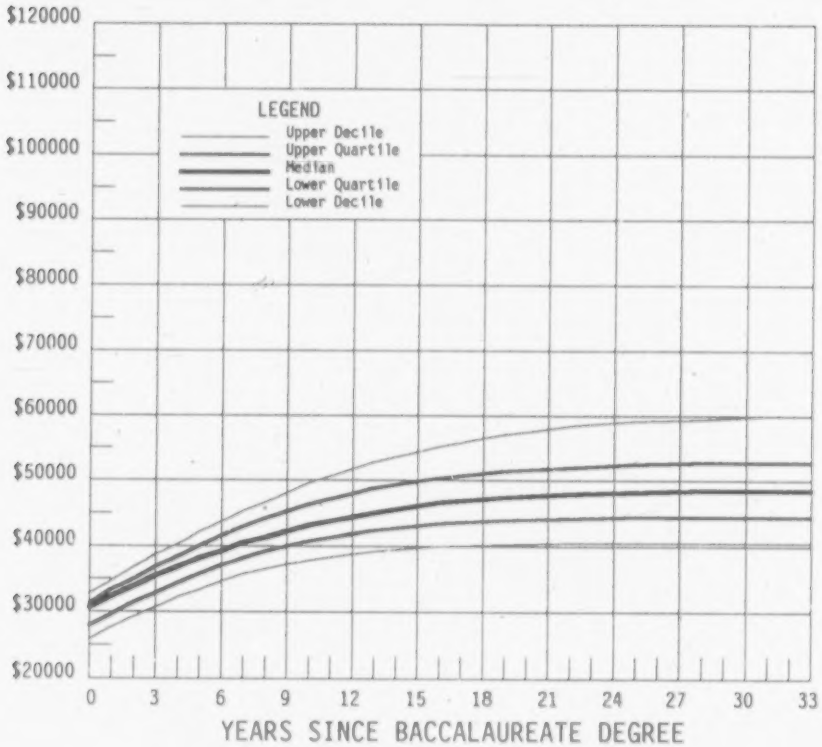
SALARY CURVES FOR ENGINEERS IN FEDERAL GOVERNMENT SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: FEDERAL GOVERNMENT, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	0	0	0	0	0	63100	64850	67650	70000	71550	72350	72700	72850	70100
Upper Quartile	0	0	0	0	0	0	0	0	0	0	56250	57500	59800	61800	63100	63850	64150	64300	61650
Median	0	0	0	0	0	0	0	0	0	0	50700	52100	53900	55400	56400	57000	57250	57400	54800
Lower Quartile	0	0	0	0	0	0	0	0	0	0	47400	48950	50350	51300	51900	52200	52350	52400	49300
Lower Decile	0	0	0	0	0	0	0	0	0	0	45300	46750	47650	48150	48350	48450	48450	48500	45950
Mean	0	0	0	0	0	0	0	0	0	0	52700	54100	55900	57300	58200	58700	58900	59000	56250
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	0	0	0	0	0	61050	67100	66000	73850	72600	70000	72950	70750	70100
Upper Quartile	0	0	0	0	0	0	0	0	0	0	55250	58100	59350	65100	63200	61250	64300	64400	61650
Median	0	0	0	0	0	0	0	0	0	0	49600	50050	56200	57700	56350	55200	56100	58650	54800
Lower Quartile	0	0	0	0	0	0	0	0	0	0	47000	48300	50350	52650	53250	51400	50350	53300	49300
Lower Decile	0	0	0	0	0	0	0	0	0	0	45200	47250	47400	48600	49800	48350	45050	50900	45950
Mean	0	0	0	0	0	0	0	0	0	0	51850	53650	56350	59400	59050	57100	57550	59450	56250
Supporting Data																			
Total Number	0	3	1	4	2	4	4	8	14	25	61	44	54	51	65	54	48	31	472
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

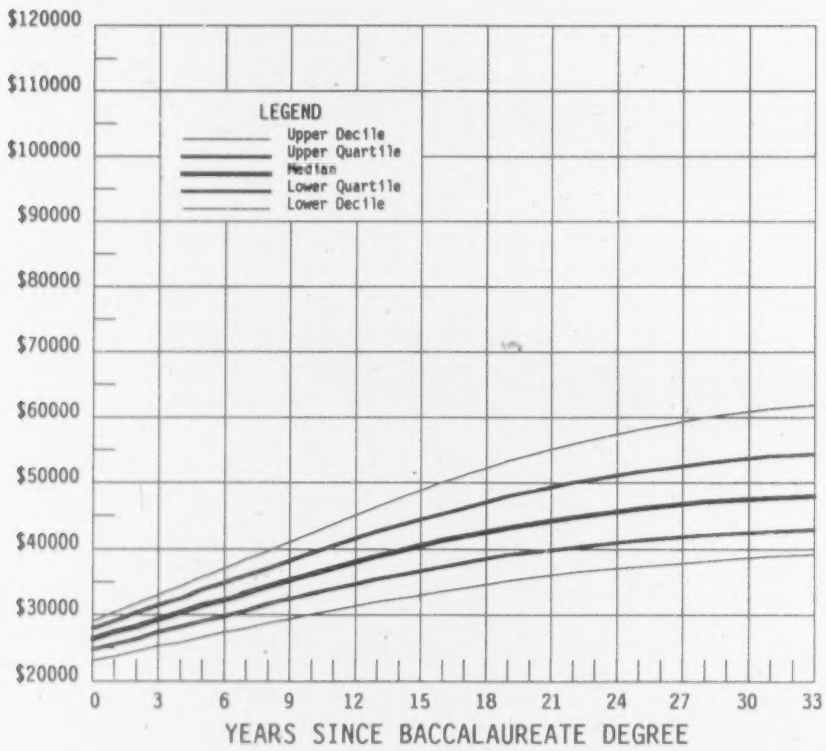
SALARY CURVES FOR ENGINEERS IN FEDERAL GOVERNMENT NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: FEDERAL GOVERNMENT, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	32900	34800	36700	38550	40350	42100	43750	45300	46800	49500	52800	55300	57100	58350	59150	59600	59900	60050	51700
Upper Quartile	31300	33200	35050	36800	38500	40100	41550	42950	44150	46300	48700	50350	51400	52100	52500	52750	52850	52950	46550
Median	30600	32250	33850	35350	36750	38100	39300	40450	41450	43200	45200	46550	47400	48000	48300	48550	48650	48700	40600
Lower Quartile	27900	29650	31350	32900	34400	35750	37000	38100	39100	40700	42350	43350	43900	44200	44400	44450	44500	44550	36100
Lower Decile	25950	27600	29250	30750	32200	33450	34600	35650	36500	37900	39250	40000	40300	40500	40550	40550	40550	40550	31300
Mean	30100	31850	33550	35150	36700	38100	39400	40650	41750	43650	45750	47200	48100	48700	49050	49250	49400	49450	41550
Raw (Unsmoothed) Statistics																			
Upper Decile	31950	36000	35900	40500	40650	42000	43800	43700	47500	49800	52700	52300	60350	60450	60700	55750	64600	54900	51700
Upper Quartile	31400	31950	35400	36350	39550	40350	42550	42150	43100	46400	47750	49150	51500	52300	54550	53300	55150	51500	46550
Median	30400	31000	34500	34750	37600	38850	40450	40050	40500	43100	42750	45600	48150	48300	50450	49500	50450	48050	40600
Lower Quartile	26950	30050	31500	31500	35350	36800	38350	38300	38550	40650	38850	41100	44850	45300	47700	45950	46150	44000	36100
Lower Decile	25100	26550	30200	30200	33000	34550	36050	36050	36500	37350	34900	37250	41450	42850	45150	42250	40200	39450	31300
Mean	29450	31500	33900	35200	37250	38600	40400	39950	41650	43650	43550	45250	48900	49650	51600	50150	51300	48050	41550
Supporting Data																			
Total Number	106	107	157	132	241	223	214	200	124	191	227	190	163	169	109	81	49	48	2734
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	8	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	11

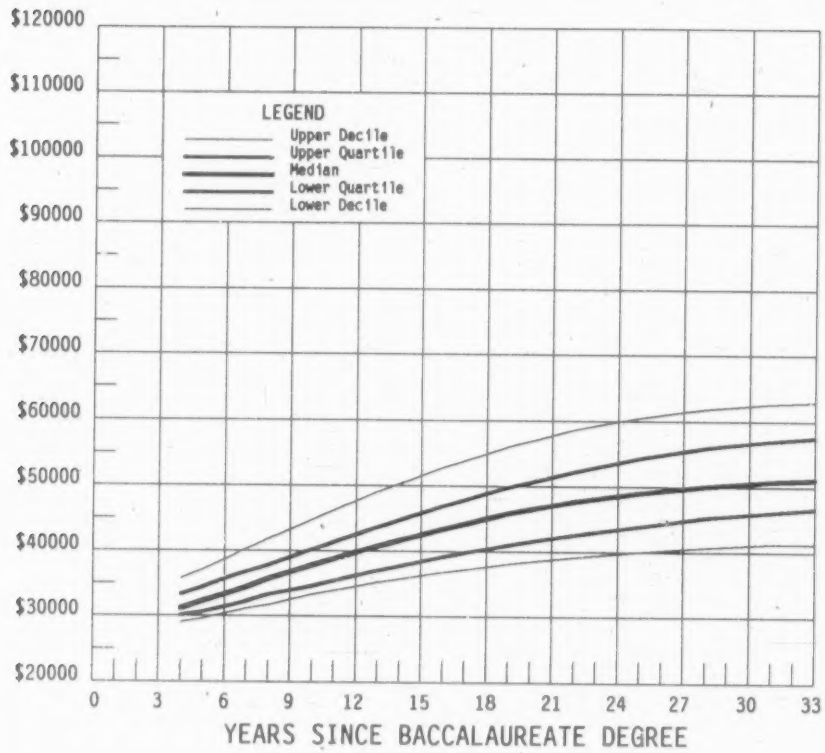
SALARY CURVES FOR ENGINEERS IN STATE GOVERNMENT
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: STATE GOVERNMENT

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
---------- Smooth Curve Data ----------																			
Upper Decile	29100	30350	31650	32950	34300	35650	37000	38350	39700	42400	46350	50000	53250	56000	58250	60000	61300	63050	53850
Upper Quartile	28100	29200	30350	31450	32600	33750	34900	36050	37150	39400	42550	45450	47950	50100	51800	53150	54100	55450	47100
Median	26350	27350	28350	29350	30400	31400	32400	33400	34350	36250	38900	41250	43250	44900	46150	47100	47750	48600	39000
Lower Quartile	24700	25600	26500	27350	28250	29100	29950	30800	31650	33250	35500	37450	39100	40400	41450	42200	42750	43450	31800
Lower Decile	23100	23800	24550	25250	26000	26700	27400	28100	28750	30100	31950	33650	35100	36400	37400	38250	38850	39750	28150
Mean	26350	27350	28350	29350	30350	31400	32400	33400	34400	36350	39100	41600	43750	45550	47000	48100	48950	50050	40300
---------- Raw (Unsmoothed) Statistics ----------																			
Upper Decile	27650	31300	32550	33050	34050	36750	37200	37850	38050	40850	45800	49550	54800	56950	60150	61050	61950	60550	53850
Upper Quartile	26450	30050	31400	31400	32750	34500	35550	35800	35500	38150	40250	45400	49800	52100	52600	52350	56700	52650	47100
Median	24600	27050	30100	30000	31100	32550	32600	33000	32400	34450	36450	41350	44850	48150	48650	47000	46750	47350	39000
Lower Quartile	23200	25200	26950	27750	29250	30700	30900	30750	30550	31250	32550	38050	39500	43400	43750	41950	42650	42100	31800
Lower Decile	22500	23300	24900	25600	26200	27500	30050	26550	28350	28450	30650	33350	35250	38750	39400	38250	39150	38300	28150
Mean	25000	27300	29250	29650	30850	32500	33000	32950	32950	34850	37150	41550	44750	48000	48850	48400	49150	48250	40300
---------- Supporting Data ----------																			
Total Number	36	58	61	74	89	90	80	68	59	131	100	121	158	108	127	122	182	188	1852
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

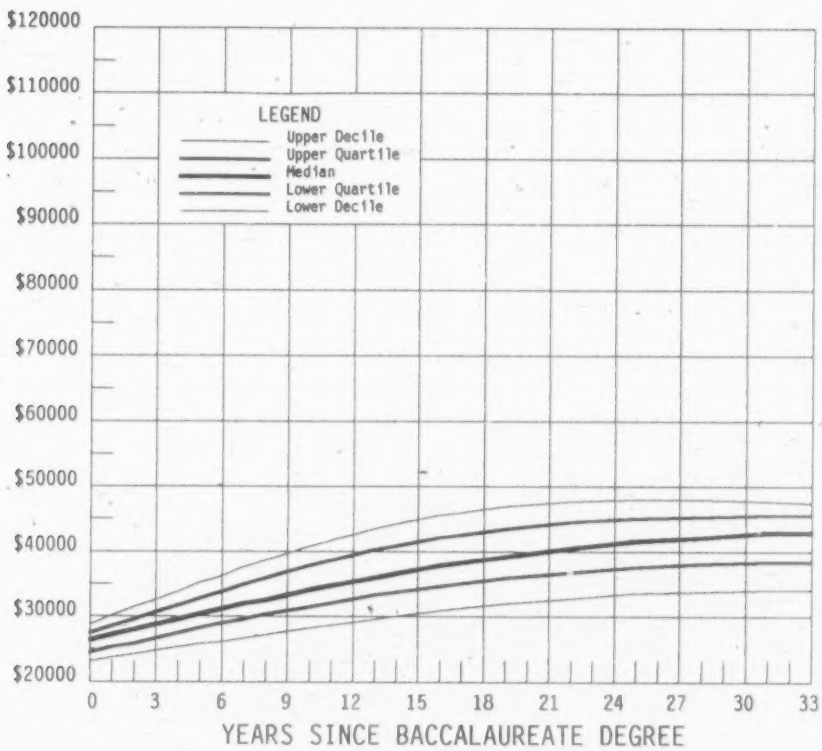
SALARY CURVES FOR ENGINEERS IN STATE GOVERNMENT SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: STATE GOVERNMENT, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	35700	37200	38750	40250	41800	44800	49050	52900	56100	58650	60550	61900	62750	63650	59250
Upper Quartile	0	0	0	0	33250	34450	35600	36800	37950	40300	43700	46900	49750	52250	54300	55950	57150	58850	51950
Median	0	0	0	0	31150	32250	33400	34500	35600	37800	40850	43550	45850	47700	49150	50200	50950	51850	45400
Lower Quartile	0	0	0	0	30000	30800	31600	32400	33200	34750	37000	39100	41000	42700	44100	45300	46250	47750	38550
Lower Decile	0	0	0	0	28950	29700	30400	31150	31850	33200	35100	36750	38150	39250	40100	40750	41200	41700	32250
Mean	0	0	0	0	31750	32850	33900	35000	36050	38150	41150	43900	46250	48200	49700	50850	51600	52550	45700
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	35050	41100	37850	39200	38900	45650	47900	51850	56750	59350	62050	62950	62450	62400	59250
Upper Quartile	0	0	0	0	33750	35700	35800	36800	36000	40000	41150	46650	51600	52650	54700	55250	58000	57600	51950
Median	0	0	0	0	32300	33900	33500	33550	33500	36400	39100	42900	47700	50000	50400	50600	49150	51850	45400
Lower Quartile	0	0	0	0	31050	32600	31400	32000	31250	33000	35100	39800	42800	43800	45500	44400	44300	48900	38550
Lower Decile	0	0	0	0	30300	31450	30550	30800	30350	30950	32350	38150	39150	39750	41350	40550	41100	40850	32250
Mean	0	0	0	0	32450	34750	33850	34450	34000	37150	39300	43700	47600	49450	50700	51000	50750	52250	45700
Supporting Data																			
Total Number	0	7	15	16	29	29	22	28	24	48	51	79	109	78	94	88	156	115	988
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

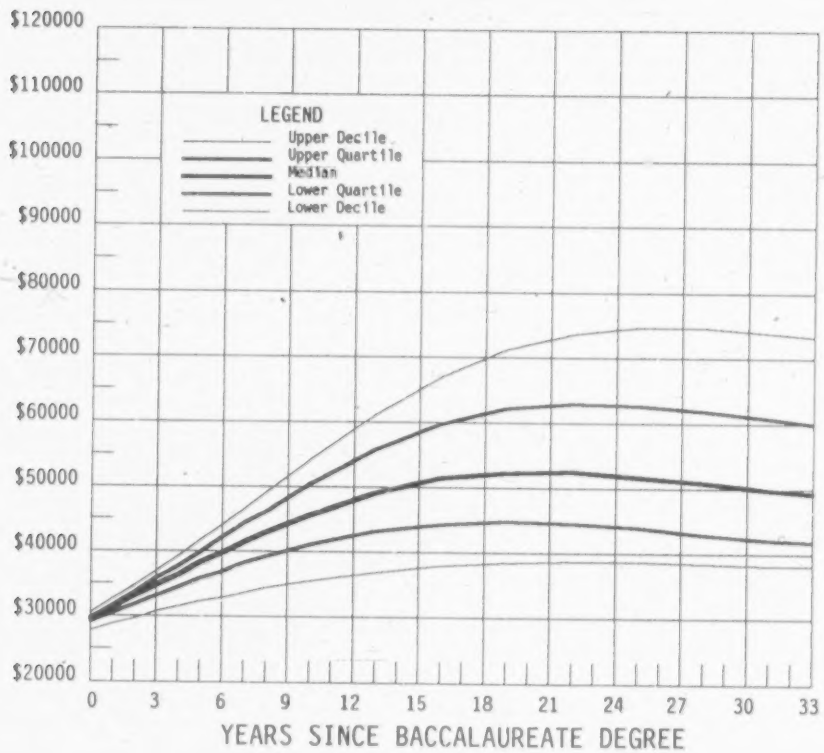
SALARY CURVES FOR ENGINEERS IN STATE GOVERNMENT NON-SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: STATE GOVERNMENT, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	28800	30050	31350	32600	33900	35150	36350	37550	38700	40800	43550	45550	46900	47650	47950	47900	47700	47000	45100
Upper Quartile	27550	28600	29700	30750	31850	32900	33950	34950	35900	37750	40150	42100	43550	44550	45150	45450	45600	45500	38450
Median	26350	27150	27950	28750	29550	30350	31100	31900	32650	34050	36050	37800	39300	40550	41500	42250	42850	43600	32750
Lower Quartile	24450	25250	26000	26750	27500	28200	28950	29650	30300	31600	33350	34800	36000	36900	37600	38050	38400	38800	29250
Lower Decile	23200	23700	24200	24700	25200	25750	26250	26800	27300	28300	29700	30950	32000	32850	33500	33950	34200	34450	25700
Mean	26150	27050	27950	28800	29650	30500	31350	32150	32950	34450	36450	38100	39400	40350	41050	41500	41800	42050	34150
Raw (Unsmoothed) Statistics																			
Upper Decile	27650	30850	32450	32100	33450	35950	37050	37200	37650	39700	44100	45400	45850	52400	51000	46600	45700	46800	45100
Upper Quartile	26450	27950	31000	31000	31900	33550	35450	35250	35100	37100	37250	42100	43400	48500	46700	45250	43250	45750	38450
Median	24600	26700	28650	29250	30500	31650	32200	32000	31700	33200	33400	37000	38500	45400	44800	42000	39350	44050	32750
Lower Quartile	23200	24850	26100	27100	27750	30100	30700	29000	29900	30550	31300	34100	34500	41750	40250	37800	37000	38750	29250
Lower Decile	22500	23150	24600	25200	25450	26050	28800	25200	27000	27100	29900	30200	30600	33000	34600	35600	34600	34650	25700
Mean	25000	26750	28550	29050	30050	31450	32700	31900	32200	33550	34850	37500	36450	44300	43600	41650	39650	42000	34150
Supporting Data																			
Total Number	36	51	46	58	60	61	58	40	35	83	49	42	49	30	33	34	26	73	864
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

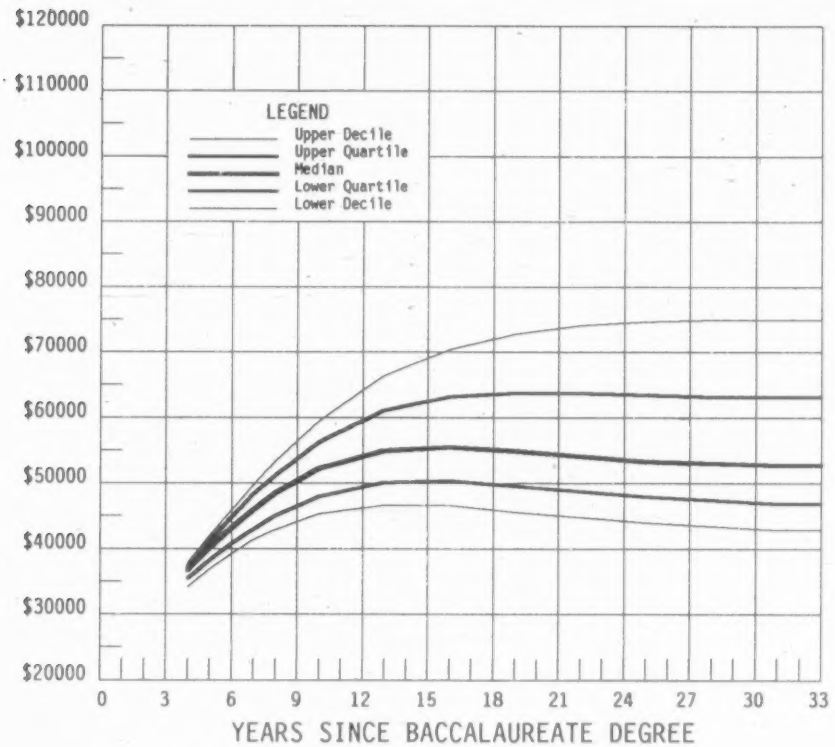
SALARY CURVES FOR ENGINEERS IN LOCAL GOVERNMENT
ALL ENGINEERS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: LOCAL GOVERNMENT

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	30500	32550	34650	36900	39200	41600	44050	46500	49050	54000	61050	66900	71200	73700	74700	74650	73950	71750	58650
Upper Quartile	29650	31550	33550	35600	37700	39850	42000	44150	46250	50350	55700	59700	62050	62950	62750	61850	60700	58150	51200
Median	29600	31250	32950	34650	36350	38050	39700	41300	42850	45700	49100	51350	52350	52450	51850	50950	49900	47850	41600
Lower Quartile	28950	30300	31650	33050	34350	35650	36850	38050	39100	41050	43150	44350	44750	44500	43900	43050	42250	40650	35500
Lower Decile	27850	28750	29650	30550	31350	32150	32900	33650	34300	35500	36900	37850	38350	38600	38550	38400	38150	37600	31000
Mean	29200	30850	32500	34200	35900	37600	39250	40900	42500	45500	49250	51900	53450	54000	53800	53200	52400	50650	43900
Raw (Unsmoothed) Statistics																			
Upper Decile	29750	0	34550	0	37800	39650	46550	0	57350	51600	51650	56800	72000	73850	72800	76400	72400	75600	58650
Upper Quartile	28900	0	31750	0	37200	37850	45750	0	54900	44000	47400	51500	62000	59000	64000	72650	60500	58500	51200
Median	27600	0	31150	0	36250	36350	44400	0	52400	37350	43100	42500	52000	50000	53000	51500	53400	49250	41600
Lower Quartile	26550	0	30600	0	35050	33400	39100	0	50700	32650	39100	36750	42800	44750	44000	43500	45100	41400	35500
Lower Decile	25400	0	30250	0	34200	27700	34400	0	37600	30700	35800	33600	41000	37600	37200	40400	41900	36550	31000
Mean	27600	0	31550	0	36000	35250	42200	0	51150	38900	43350	44150	53300	52900	53650	55150	53950	51950	43900
Supporting Data																			
Total Number	17	2	22	9	49	27	52	6	46	24	19	18	20	26	16	18	19	31	421
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SALARY CURVES FOR ENGINEERS IN LOCAL GOVERNMENT SUPERVISORS, ALL DEGREE LEVELS



1990 ENGINEERING SALARY STATISTICS: LOCAL GOVERNMENT, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	37900	41900	45900	49700	53250	59550	66350	70500	72800	74000	74600	74900	75050	75100	62500
Upper Quartile	0	0	0	0	37400	41150	44800	48200	51300	56400	61150	63200	63750	63650	63400	63200	63100	63000	54000
Median	0	0	0	0	36750	40100	43200	46000	48450	52150	54950	55450	54900	54150	53450	53000	52750	52550	46900
Lower Quartile	0	0	0	0	35550	38250	40750	43000	44950	47900	50050	50300	49650	48750	47950	47350	47000	46700	38650
Lower Decile	0	0	0	0	34200	36800	39200	41250	43000	45400	46800	46550	45650	44700	43900	43400	43050	42800	36200
Mean	0	0	0	0	36300	39650	42850	45750	48350	52300	55650	56850	57000	56800	56550	56350	56250	56200	48650
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	37700	40100	46650	0	57700	53000	52700	0	73600	74250	73400	77400	74800	79600	62500
Upper Quartile	0	0	0	0	37200	38750	45950	0	55250	51500	50000	0	64000	60500	67000	74350	63000	61500	54000
Median	0	0	0	0	36400	37350	44850	0	52850	45500	44000	0	60000	51100	57000	55250	54900	51900	46900
Lower Quartile	0	0	0	0	35250	36350	40800	0	51350	39500	41000	0	52000	47450	47750	50400	51900	44750	38650
Lower Decile	0	0	0	0	34450	33200	38950	0	50450	38000	37200	0	50200	41450	44450	47450	47900	41100	36200
Mean	0	0	0	0	36150	37150	43600	0	53400	44950	45400	0	59100	54350	57700	60800	57900	56550	48650
Supporting Data																			
Total Number	0	0	0	0	42	18	41	2	40	10	12	8	12	23	13	13	13	21	268
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDICES:

List of Survey Participants, by Industry Sector

Copies of the Survey Instruments

Blank Form for Plotting Curves

1990 SALARY SURVEY PARTICIPANTS, BY INDUSTRIAL SECTOR

AEROSPACE

CAE-Link Flight Simulation, Houston, Texas
Contraves Goerz Corporation, Pittsburgh, Pennsylvania (also classed with Electric Machinery, Electronic Equipment)
Cox & Company, Inc., New York, New York (also classed with Electronic Equipment)
Dynamic Controls Corporation, South Windsor, Connecticut (primary classification: Electronic Equipment)
General Dynamics/Fort Worth Division, Fort Worth, Texas (also classed with Electronic Equipment)
Grumman Corporation, Bethpage, New York (also classed with Electronic Equipment)
Howmet Corporation, Dover, New Jersey
Ithaco, Inc., Ithaca, New York (primary classification: Electronics Equipment)
Learjet Corporation, Wichita, Kansas
Litton Instruments & Life Support (formerly Clifton Precision; also classed with Precision Instruments)
Loral Defense Systems, Litchfield Park, Arizona
LTV Missiles Division, Vought Corporation, Dallas, Texas (also classed with Electronic Equipment)
Micro Craft, Inc., Tullahoma, Tennessee (four locations; also classed with Fabricated Metal Products, Engineering Services)
Norden Systems, Inc., Melville, New York
Rocket Research Company, Redmond, Washington (also classed with Research Organizations)
Teledyne Brown Engineering/Aerospace Group, Huntsville, Alabama (also classed with Research Organizations)
Thomas/Scifers, Inc., Manhattan Beach, California (also classed with Computing Systems, Research Organizations)

BASIC METALS

Carpenter Technology Corporation, Reading, Pennsylvania
Inland Steel Company, East Chicago, Indiana
LTV Steel Company, Inc., Cleveland, Ohio
Reynolds Metals, Corpus Christi, Texas
The Timken Company, Canton, Ohio (primary classification: Fabricated Metal Products)
U.S. Reduction Company, Munster, Indiana

CHEMICALS, DRUGS & PLASTICS

Air Products & Chemicals, Inc., Allentown, Pennsylvania (also classed with Electric Machinery, Non-Electric Machinery)
Chevron Corporation, San Francisco, California (primary classification: Petroleum)
Dow Chemical U.S.A., Midland, Michigan
E. I. Du Pont de Nemours & Co., Wilmington, Delaware
Fuel Tech, Inc., Stamford, Connecticut (also classed with Other Durable Goods Manufacturers)
Georgia Gulf Corporation, Atlanta, Georgia
Haldor Topsoe Inc., Houston, Texas (also classed with Consulting Services)
Henkel Corporation, Ambler, Pennsylvania
Knapp Chemical, Inc., Lodi, New Jersey
Linnhoff March, Inc., Leesburg, Virginia (also classed with Computing Systems, Consulting Services)
Martin Marietta Energy Systems, Inc., Piketon, Ohio
Mississippi Chemical Corporation, Yazoo City, Mississippi
National Starch & Chemical Corp., Bridgewater, New Jersey
Rohm & Haas Company, Philadelphia, Pennsylvania
Scott Gases, Inc., Plumsteadville, Pennsylvania (also classed with Engineering Services)
Tupperware Co., Woonsocket, Rhode Island (also classed with Electric Machinery, Non-Electric Machinery)

COMMUNICATION SERVICES

Carolina Telephone & Telegraph Co., Tarboro, North Carolina
Chiyoda International Co., Seattle, Washington (primary classification: Consulting Services)
Illinois Bell Telephone Co., Chicago, Illinois
Lincoln Telephone & Telegraph Co., Lincoln, Nebraska
MCI Communications Corporation, Washington, D.C.
Quintron Systems, Inc., Vanderberg AFB, California
U.S. West Communications, Seattle, Washington (formerly Pacific Northwest Bell Telephone Co.)

COMPUTING SYSTEMS (including either hardware or software)

Applied Magnetics Corporation, Goleta, California
Computer Science Corporation, Special Projects Division, Falls Church, Virginia
Datakey, Inc., Burnsville, Minnesota (primary classification: Electronic Equipment)
Gandalf Data, Inc., Wheeling, Illinois (also classed with Electronic Equipment)
Harris Corporation, Government Support Systems Division, Syosset, New York (primary classification: Electronic Equipment)
Linnhoff March, Inc., Leesburg, Virginia (primary classification: Chemicals, Drugs & Plastics)
Norris-Repke, Inc., Tustin, California (primary classification: Consulting Services)
Ocean & Atmospheric Science, Dobbs Ferry, New York (primary classification: Electronic Equipment)
Racal Corporation, Fort Lauderdale, Florida
Summagraphics Corporation, Fairfield, Connecticut
Thomas/Scifers, Inc., Manhattan Beach, California (primary classification: Aerospace)

CONSTRUCTION

CBI Industries Inc., Oakbrook, Illinois (also classed with Engineering Services)
Ebasco Services, Inc., New York, New York (primary classification: Consulting Services)
Fru-Con Corporation, Ballwin, Missouri (also classed with Consulting Services)
Kaiser Engineers Hanford, Richland, Washington (also classed with Engineering Services)
Kiewit Construction Group, Inc., Omaha, Nebraska
Nolte & Associates, San Jose, California (primary classification: Consulting Services)
Riley Consolidated, Inc., Worcester, Massachusetts (primary classification: Engineering Services)
Sverdrup Corporation, St. Louis, Missouri (primary classification: Consulting Services)

CONSULTING SERVICES (see also Engineering Services)

Acres International Corporation, Amherst, New York
ANCO Engineers, Inc., Culver City, California (also classed with Research Organizations)
Boyd, Brown, Stude & Cambern, Kansas City, Missouri
Burgess & Niple, Columbus, Ohio
Burns & McDonnel, Kansas City, Missouri
CH2M Hill, Inc., Englewood, Colorado (also classed with Engineering Services)
Chiyoda International Company, Seattle, Washington (also classed with Engineering Services, Communication Services)
Clyde E. Williams & Associates, South Bend, Indiana
Construction Technology Laboratories, Inc., Skokie, Illinois
Design Automation Inc., Lexington, Massachusetts (also classed with Research Organizations)
Dewberry & Davis, Fairfax, Virginia
Ebasco Services, Inc., New York, New York (also classed with Construction, Engineering Services)
Edwards & Kelcey, Inc., Livingston, New Jersey (also classed with Engineering Services)
ETEC, Irvine, California
F. X. Browne Associates, Lansdale, Pennsylvania
Fay, Spofford & Thorndike, Inc., Lexington, Massachusetts
Fluor Daniel, Inc., Irvine, California (also classed with Engineering Services)
Franzoy-Corey Engineering Company, Phoenix, Arizona

Fru-Con Corporation, Ballwin, Missouri (primary classification: Construction)
Fugro-McClelland, Inc., Houston, Texas (formerly McClelland Consulting Services; also classed with Engineering Services)
Gannett Fleming, Harrisburg, Pennsylvania
Glosten Associates, Seattle, Washington (also classed with Engineering Services)
Goodkind & O'Dea, Inc., Rutherford, New Jersey
Graef, Anhalt, Schloemer & Associates, Milwaukee, Wisconsin
Greeley & Hanson, Chicago, Illinois
Haldor Topsoe Inc., Houston, Texas (primary classification: Chemicals, Drugs & Plastics)
Hardesty & Hanover, New York, New York
Harza Engineering Company, Chicago, Illinois
Howard Needles Tammen & Bergendoff, Milwaukee, Wisconsin
Jacobs Associates, San Francisco, California
Kidde Consultants, Inc., Baltimore, Maryland
L. R. Squier Associates, Inc., Lake Oswego, Oregon
Lawler, Matusky & Skelby Engineers, Pearl River, New York (also classed with Research Organizations)
Lester B. Knight & Associates, Inc., Chicago, Illinois
Linnhoff March, Inc., Leesburg, Virginia (primary classification: Chemicals, Drugs & Plastics)
McCrone, Inc., Annapolis, Maryland
McLaren Environmental Engineering, Rancho Cordova, California (also classed with Engineering Services)
Midwest Consulting Engineers, Chicago, Illinois (also classed with Engineering Services)
Nolte & Associates, San Jose, California (also classed with Construction, Engineering Services)
Norris-Repke, Inc., Tustin, California (also classed with Computing Systems, Engineering Services)
PDI Corporation, Annapolis, Maryland (also classed with Electronic Equipment)
Power Technologies, Inc., Schenectady, New York
RMT, Inc. Madison, Wisconsin (also classed with Engineering Services)
Robert H. Fuller & Associates, Columbus, Ohio (also classed with Engineering Services)
Rolf Jensen & Associates, Inc., Deerfield, Illinois
Rushmore Engineering, Rushmore Electric Power Cooperative, Rapid City, South Dakota (primary classification: Electric Utilities)
S. M. Stoller Corporation, Eastern Division, Pleasantville, New York
Sargent & Lundy, Chicago, Illinois
Schaaf & Wheeler, San Jose, California
Schnabel Engineering Associates, Inc., Bethesda, Maryland (formerly Schnabel Foundation Co.)
SDRC Engineering Services Div., Western Regional Operations, San Diego, California (also classed with Engineering Services)
Stanley Consultants Inc., Muscatine, Iowa
Sverdrup Corporation, St. Louis, Missouri (also classed with Construction)
Wilsey & Ham Pacific, Inc., Bellevue, Washington
Wright-Pierce Engineers, Topsham, Maine

ELECTRICAL MACHINERY

ADT Security Sustems, Inc., Parsippany, New Jersey
Air Products & Chemicals, Inc., Allentown, Pennsylvania (primary classification: Chemicals, Drugs & Plastics)
Allen-Bradley Company, Milwaukee, Wisconsin (also classed with Electronic Equipment)
Babcock Industries, Inc., Chain & Lifting Products Div., York, Pennsylvania (primary classsification: Fabricated Metal Products)
Bodine Electric Co., Chicago, Illinois
Contraves Goerz Corporation, Pittsburgh, Pennsylvania (primary classification: Aerospace)
Dictaphone Corporation (primary classification: Electronic Equipment)
Harvey Hubbell, Inc., Bridgeport, Connecticut
Hoover Company, North Canton, Ohio
Kennall Manufacturing Company, Chicago, Illinois
Milwaukee Electric Tool Corporation, Brookfield, Wisconsin
S&C Electric Company, Chicago, Illinois
Tupperware Co., Woonsocket, Rhode Island (primary classification: Chemicals, Drugs & Plastics)

United Technologies/Carrier, Syracuse, New York
Whirlpool Corporation, Benton Harbor, Michigan

ELECTRIC UTILITIES (includes mixed electric/gas utilities)

Allegheny Power Services Corp., Greensburg, Pennsylvania
American Electric Power Service Corp., Columbus, Ohio
Appalachian Power Company, Roanoke, Virginia
Arkansas Power & Light Company, Little Rock, Arkansas
Boston Edison, Boston, Massachusetts
Carolina Power & Light Company, Raleigh, North Carolina
Central Nebraska Public Power & Irrigation District, Holdrege, Nebraska
City Public Service Board, San Antonio, Texas
Commonwealth Edison Company, Chicago, Illinois
Cooperative Power Association, Eden Prairie, Minnesota
Deseret Generation & Transmission Co., Sandy, Utah
Detroit Edison, Detroit, Michigan
Electric Power of Chattanooga, Chattanooga, Tennessee
Gulf Power Company, Pensacola, Florida
Illinois Power Company, Decatur, Illinois
Indianapolis Power & Light Company, Indianapolis, Indiana
Iowa Resources, Des Moines, Iowa
Iowa-Illinois Gas & Electric Co., Davenport, Iowa
Kansas City Power & Light Company, Kansas City, Missouri
Metropolitan Edison Company, Reading, Pennsylvania
Minnesota Power, Duluth, Minnesota
Nebraska Public Power District, Columbus, Nebraska
New England Electric System, Westboro, Massachusetts
Niagara Mohawk Power Corporation, Syracuse, New York
Northern Neck Electric Cooperative, Warsaw, Virginia
Northwestern Wisconsin Electric Co., Grantsburg, Wisconsin
Pacific Gas & Electric Company, San Francisco, California
Penn Power & Light Company, Allentown, Pennsylvania
Potomac Edison Company, Hagerstown, Maryland
Public Service Electric & Gas Co., Newark, New Jersey
Public Service of New Hampshire, Manchester, New Hampshire
Rushmore Engineering/Rushmore Electric Power Cooperative, Rapid City, South Dakota (also classed with Consulting Services)
South Carolina Electric & Gas Co., Columbia, South Carolina
Springfield Utility Board, Springfield, Oregon
St. Johns River Power Park, Jacksonville, Florida
Tampa Electric Company, Tampa, Florida
Union Electric Company, St. Louis, Missouri
Virginia Power/North Carolina Power, Richmond, Virginia
West Penn Power Company, Greensburg, Pennsylvania
Wisconsin Electric Power Company, Milwaukee, Wisconsin

ELECTRONIC EQUIPMENT

Advanced Mechanical Technology Inc., Newton, Massachusetts (primary classification: Research Organizations)
Allen-Bradley Company, Milwaukee, Wisconsin (primary classification: Electrical Machinery)
Alpha Industries, Inc., Woburn, Massachusetts
Applied Microsystems Corporation, Redmond, Washington
American Telephone & Telegraph Co., Bernardsville, New Jersey
Belfort Instrument Division of Transtechnology Corp., Baltimore, Maryland (primary classification: Precision Instruments)

Contraves Goerz Corporation, Pittsburgh, Pennsylvania (primary classification: Aerospace)
Cox & Company, Inc., New York, New York (primary classification: Aerospace)
Datakey, Inc., Burnsville, Minnesota (also classed with Computing Systems)
Dictaphone Corporation, Stratford, Connecticut (also classed with Electric Machinery)
Dynamic Controls Corporation, South Windsor, Connecticut (also classed with Aerospace)
Emerson Industrial Controls, Grand Island, New York
Gandalf Data, Inc., Wheeling, Illinois (primary classification: Computing Systems)
General Dynamics/Fort Worth Division, Fort Worth, Texas (primary classification: Aerospace)
Grumman Corporation, Bethpage, New York (primary classification: Aerospace)
Harris Corporation, Farinon Division, San Carlos, California
Harris Corporation, Government Support Systems Division, Syosset, New York (also classed with Computing Systems)
Harris Corporation, Semiconductors Division, Melbourne, Florida
Harris Corporation, RF Communications Division, Rochester, New York
Hazeltine Corporation, Greenlawn, New York
Ithaco, Inc., Ithaca, New York (also classed with Aerospace, Precision Instruments)
ITT Corporation, Avionics Division, Nutley, New Jersey
Litton Systems, Inc., Amecom Division, College Park, Maryland
LNR Communications, Inc., Hauppauge, New York
LTV Missiles Division, Vought Corporation, Dallas, Texas (primary classification: Aerospace)
Lutron Electronics Company, Inc., Coopersburg, Pennsylvania
North American Phillips Corp., Magnavox Electronic Systems Co., Fort Wayne, Indiana
North American Phillips Corp., Magnavox Electronic Systems Co., Sterling, Virginia
Ocean & Atmospheric Science, Dobbs Ferry, New York (also classed with Computers, Precision Instruments)
PDI Corporation, Annapolis, Maryland (primary classification: Consulting Services)
Plantronics Data Communications Group, Frederick, Maryland
Racal Corporation, Fort Lauderdale, Florida (also classed with Computing Systems)
R. L. Drake Company, Franklin, Ohio
Sippican Ocean Systems, Inc., Marion, Massachusetts
Teledyne Avionics, Charlottesville, Virginia
Teledyne/Lewisburg, Lewisburg, Tennessee
Teledyne MEC, Mountain View, California

ENGINEERING SERVICES (see also Consulting Services)

Advanced Mechanical Technology Inc., Newton, Massachusetts (primary classification: Research Organizations)
Allendale Mutual Insurance Company, Johnston, Rhode Island
Arkwright Mutual Insurance Co., Waltham, Massachusetts
BDM International, Inc., McLean, Virginia
Brown & Root/Braun, Alhambra, California (formerly C. F. Braun, Inc.)
CBI Industries Inc., Oakbrook, Illinois (primary classification: Construction)
CH2M Hill, Inc., Englewood, Colorado (primary classification: Consulting Services)
Chiyoda International Company, Seattle, Washington (primary classification: Consulting Services)
Crown Iron Works (primary classification: Non-Electrical Machinery)
CSA Engineering Inc., Palo Alto, California (also classed with Research Organizations)
D'Appolonia Engrg Div., Ground Technology, Inc., Monroeville, Pennsylvania (primary classification: Consulting Services)
DeKalb Genetics Corporation, DeKalb, Illinois
Ebasco Services, Inc., New York, New York (primary classification: Consulting Services)
Edwards & Kelcey, Inc., Livingston, New Jersey (primary classification: Consulting Services)
Electrack Div. of EMJ/McFarland-Johnson Engineers, Inc., Binghamton, New York
Fluor Daniel, Inc., Irvine, California (primary classification: Consulting Services)
Fugro-McClelland, Inc., Houston, Texas (formerly McClelland Consulting Services; primary classification: Consulting Services)
General Research Corporation, McLean, Virginia
Glosten Associates, Seattle, Washington (primary classification: Consulting Services)

Graef, Anhalt, Schloemer & Associates, Milwaukee, Wisconsin (also classed with Consulting Services)
International Waste Energy Systems, St. Louis, Missouri
Kaiser Engineers Hanford, Richland, Washington (primary classification: Construction)
Martin Marietta Energy Systems, Inc., Oak Ridge, Tennessee (primary classification: Other Durable Goods Manufacturers)
McFarland-Johnson Division of EMJ/McFarland-Johnson Engineers, Inc., Binghamton, New York
McLaren Environmental Engineering, Rancho Cordova, California (primary classification: Consulting Services)
Micro Craft, Inc., Tullahoma, Tennessee (four locations) (primary classification: Aerospace)
Midwest Consulting Engineers, Chicago, Illinois (primary classification: Consulting Services)
Nolte & Associates, San Jose, California (primary classification: Consulting Services)
Norris-Repke, Inc., Tustin, California (primary classification: Consulting Services)
Riley Consolidated, Inc., Worcester, Massachusetts (also classed with Construction)
RMT, Inc. Madison, Wisconsin (primary classification: Consulting Services)
Robert H. Fuller & Associates, Columbus, Ohio (primary classification: Consulting Services)
Scott Gases, Inc., Plumsteadville, Pennsylvania (primary classification: Chemicals, Drugs & Plastics)
SDRC Engrg Svces Div., Western Regional Operations, San Diego, California (primary classification: Consulting Services)
Springborn Laboratories, Inc., Testing & Quality Assurance Division, Enfield, Connecticut
Sverdrup Technology, Inc., Tullahoma, Tennessee (eleven locations)
Underwriters Laboratories Inc., Northbrook, Illinois
University of Tennessee Space Institute, Energy Conservation Program, Tullahoma, Tennessee (primary classification: Research Organizations)
Westinghouse Energy Systems Business Unit, Pittsburgh, Pennsylvania
Westinghouse Hanford Company, Richland, Washington

FABRICATED METAL PRODUCTS

AMP Incorporated, Harrisburg, Pennsylvania (primary classification: Electronic Equipment)
Artisan Industries Inc., Waltham, Massachusetts (primary classification: Non-Electric Machinery)
Automatic Feed Company, Napoleon, Ohio (primary classification: Non-Electric Machinery)
Babcock Industries, Inc., Chain & Lifting Products Div., York, Pennsylvania (also classed with Electrical Machinery)
Dover Corporation/Bernard Division, Beecher, Illinois
Duo-Fast Corporation, Franklin Park, Illinois
Micro Craft, Inc., Tullahoma, Tennessee (four locations) (primary classification: Aerospace)
Murry Onio Manufacturing Co., Brentwood, Tennessee
NI Industries, Inc., Vernon Division, Los Angeles, California
Nordyne, St. Louis, Missouri
NTN Power Corporation, Franklin, Michigan
Schramm, Inc., West Chester, Pennsylvania (primary classification: Non-Electrical Machinery)
Sunstrand Corporation Fluid Handling Division, Arvada, Colorado (primary classification: Petroleum)
Templeton, Kenlt & Co., Inc., Broadview, Illinois
The Timken Company, Canton, Ohio (also classed with Basic Metals)
Torrington Company, Torrington, Connecticut
Zeller Corporation, Defiance, Ohio

GAS UTILITIES & PIPELINES

Battle Creek Gas Company, Battle Creek, Michigan
BP Exploration, Houston, Texas
Colorado Interstate Gas Company, Colorado Springs, Colorado
Columbia Gas Transmission Corp., Charleston, West Virginia
Dugan Production Corporation, Farmington, New Mexico (also classed with Petroleum)
Enron Liquid Fuels Company, Houston, Texas (primary classification: Petroleum)
Metropolitan Utilities District, Omaha, Nebraska (also classed with Local Government)
Southern Natural Gas Company, Birmingham, Alabama
St. Lawrence Gas Company, Inc., Massena, New York

Texas Gas Transmission Corporation, Owensboro, Kentucky
Western Kentucky Cas Company, Owensboro, Kentucky
W. M. Lyles Co., Fresno, California (primary classification: Construction)

NON-ELECTRICAL MACHINERY

Air Products & Chemicals, Inc., Allentown, Pennsylvania (primary classification: Chemicals, Drugs & Plastics)
Artisan Industries Inc., Waltham, Massachusetts (also classed with Fabricated Metal Products)
Automatic Feed Co., Napoleon, Ohio (also classed with Fabricated Metal Products)
C-E Cast Equipment Division, Combustion Engineering, Inc., Cleveland, Ohio
Crown Iron Works (also classed with Engineering Services)
Fuller Company, Bethlehem, Pennsylvania
Gehl Company, West Bend, Wisconsin
Goulds Pumps Inc., Senaca Falls, New York (five locations)
Ingersoll-Rand Construction Equipment Portable Compressor Division, Mocksville, North Carolina
Johnson Controls, Inc., Plastics Technology Group, Manchester, Minnesota
Leybold Vacuum Products, Inc., Export, Pennsylvania
Litton UHS, Hebron, Kentucky
Mahaffey & Harder, Fairfield, New Jersey
Manitowoc Engineering Company, Manitowoc, Wisconsin
Massey-Ferguson Inc., Des Moines, Iowa
Mixing Equipment Company, Rochester, New York
Nash Engineering Company, Norwalk, Connecticut
Outboard Marine, Waukegan, Illinois
Pellerin Milnor Corporation, Kenner, Louisiana
Schramm, Inc., West Chester, Pennsylvania (also classed with Fabricated Metal Products)
Sunstrand Corporation Fluid Handling Division, Arvada, Colorado (primary classification: Petroleum)
Tupperware Co., Woonsocket, Rhode Island (primary classification: Chemicals, Drugs & Plastics)

OTHER DURABLE GOODS MANUFACTURERS

Champion Spark Plug Company, Toledo, Ohio
Fuel Tech, Inc., Stamford, Connecticut (primary classification: Chemicals, Drugs & Plastics)
General Dynamics Corporation, Electric Boat Division, Groton, Connecticut
G.E. Nuclear Energy, San Jose, California (primary classification: Engineering Services)
Johnson Controls, Inc., Battery Group, Milwaukee, Wisconsin
Kimble Glass, Inc. Subsidiary of Owens-Illinois, Inc., Vineland, New Jersey
Mack Trucks, Inc., Product & Engineering Division, Allentown, Pennsylvania
Martin Marietta Energy Systems, Inc., Oak Ridge, Tennessee (also classed with Engineering Services)
Otto H. York Company, Inc., Parsippany, New Jersey
Pfalzgraff Company, York, Pennsylvania
Price Brothers Company, Dayton, Ohio
Radiation Systems Inc. SatCom Technologies Division, Duluth, Georgia
Raymond Corporation, Greene, New York
Riley Consolidated, Inc., Worcester, Massachusetts (primary classification: Engineering Services)

OTHER NONDURABLE GOODS MANUFACTURERS

American Tobacco Company, Chester, Virginia
Bowater Incorporated, Southern Division, Calhoun, Tennessee
Burlington Industries, Inc., Greensboro, North Carolina
Carnation Company, Los Angeles, California
Collins & Aikman Corporation, Charlotte, North Carolina
Consolidated Papers, Wisconsin Rapids, Wisconsin
Kimberly-Clark Corporation, Neenah, Wisconsin
Liquid Carbolic Industries Corp., Chicago, Illinois
Lord Corporation, Erie, Pennsylvania

Milliken & Company, Spartanburg, South Carolina
Vanity Fair Mills, Inc., Monroeville, Alabama

OTHER NON-MANUFACTURING

American Society of Agricultural Engineers, St. Joseph, Minnesota
Associated Universities, Inc. National Radio Astronomy Observatory, Charlottesville, Virginia
Hecla Mining Company, Coeur d'Alene, Idaho
Kiewit Mining Group, Inc., Omaha, Nebraska
North Jersey District Water Supply Company, Wanaque, New Jersey (also classed with Local Government)
Penton Publishing Inc., Welding Design & Fabrication, Cleveland, Ohio
Portland Cement Association, Skokie, Illinois
Riverside Research Institute, New York, New York
Water Pollution Control Federation, Alexandria, Virginia

PETROLEUM

Alta Energy Corporation, Midland, Texas
Burk Royalty Co., Wichita Falls, Texas
Chevron Corporation, San Francisco, California (also classed with Chemicals, Drugs & Plastics)
Dugan Production Corporation, Farmington, New Mexico (primary classification: Gas Utilities)
Enron Liquid Fuels, Houston, Texas (also classed with Gas Utilities)
Exxon Research & Engineering, Florham Park, New Jersey (primary classification: Research Organizations)
MESA Operating Limited Partnership, Amarillo, Texas
Sundstrand Corporation Fluid Handling Division, Arvada, Colorado (also classed with Fabricated Metal Products, Non-Electric Machinery)
Total Petroleum, Inc., Denver, Colorado

PRECISION INSTRUMENTS

Belfort Instrument Division of Transtechnology Corp., Baltimore, Maryland (also classed with Electronic Equipment)
Ithaco, Inc., Ithaca, New York (primary classification: Electronics Equipment)
Johnson Controls, Inc., Controls Group, Milwaukee, Wisconsin
Litton Instruments & Life Support (formerly Clifton Precision; primary classification: Aerospace)
MTS Systems Corporation, Eden Prairie, Minnesota
Ocean & Atmospheric Science, Dobbs Ferry, New York (primary classification: Electronic Equipment)
Welch Allyn, Inc., Skaneateles Falls, New York

RESEARCH ORGANIZATIONS

Advanced Mechanical Technology Inc., Newton, Massachusetts (also classed with Electronic Equipment, Engineering Services)
Aerospace Corporation, Los Angeles, California
ANCO Engineers, Inc., Culver City, California (primary clissification: Consulting Services)
AT&T Bell Laboratories, Short Hills, New Jersey
Autoresearch Labs, Inc., Chicago, Illinois
Brookhaven National Laboratory, Upton, New York
CSA Engineering Inc., Palo Alto, California (primary classification: Engineering Services)
Design Automation Inc., Lexington, Massachusetts (primary classification: Consulting Services)
Duracell Worldwide Technology Center, Needham, Massachusetts
ENSCO, Inc., Springfield, Virginia
ERIM (Environmental Research Institute of Michigan), Ann Arbor, Michigan
Exxon Research & Engineering Co., Florham Park, New Jersey (also classed with Petroleum)
Fermi National Accelerator Laboratory, Batavia, Illinois
GTE Laboratories, Inc., Waltham, Massachusetts
Institute for Astronomy, Honolulu, Hawaii

Institute for Defense Analyses, Alexandria, Virginia
Institute of Gas Technology, Chicago, Illinois
Jet Propulsion Laboratory, Pasadena, California
Johns Hopkins University Applied Physics Laboratory, Laurel, Maryland
Lanxide Corporation, Newark, Delaware
Lawler, Matusky & Skelby Engineers, Pearl River, New York (primary classification: Consulting Services)
Lawrence Livermore National Laboratory, Livermore, California
RAND Corporation, Santa Monica, California
Research Triangle Institute, Research Triangle Park, North Carolina
Rocket Research Company, Redmond, Washington (primary clasification: Aerospace)
Sandia National Laboratories, Livermore, California
Sandia National Laboratories, Albuquerque, New Mexico
Systems Research Laboratories, Dayton, Ohio
Teledyne Brown Engineering/Aerospace Group, Huntsville, Alabama (primary classification: Aerospace)
Teledyne Brown Engineering/R&D Group, Huntsville, Alabama
Thomas/Scifers, Inc., Manhattan Beach, California (primary classification: Aerospace)
University of Dayton Research Institute, Dayton, Ohio
University of Tennessee Space Institute, Energy Conservation Program, Tullahoma, Tennessee (also classed with Engineering Services)

1990 SALARY SURVEY PARTICIPANTS: GOVERNMENT AGENCIES

FEDERAL GOVERNMENT

NASA: Office of Engineering Administration, John F. Kennedy Space Center, Florida
NIH: Computer Systems Lab, DCRT, Bethesda, Maryland
USAF: Ogden Air Logistics Center, Hill AFB, Ogden, Utah
USN: Marine Corps Air-Ground Combat Center, Twentynine Palms, California
USN: Naval Aviation Depot, Marine Corps Air Station, Cherry Point, North Carolina
USN: Naval Underwater Systems Center, Newport, Rhode Island
USN: Naval Ship Systems Engineering Station, Philadelphia, Pennsylvania
USN: Philadelphia Naval Shipyard, Philadelphia, Pennsylvania
Veterans Administration Medical Center, San Diego, California

STATE GOVERNMENT

Delaware Division of Water Resources (DNREC), Surface Water Management Section, Dover
Indiana Department of Natural Resources, Division of Water, Indianapolis
Iowa State Department of Transportation, Ames
Minnesota State Department of Transportation, St. Paul
Missouri Highway & Transportation Department
New York State Department of Transportation
North Carolina Department of Transportation, Raleigh
Virginia Office of Water Programs, Richmond

LOCAL GOVERNMENT

City of Austin, Texas
City of Fort Collins, Colorado
City of St. Paul, Public Works Department, St. Paul, Minnesota
Dallas Area Rapid Transit (DART), Dallas, Texas
Dayton Department of Urban Development, Division of Engineering, Dayton, Ohio
Indianapolis Department of Public Works, Indianapolis, Indiana
Johnson County Unified Wastewater Districts, Shawnee Mission, Kansas
Kansas City Public Works Department, Kansas City, Missouri
Metropolitan Utilities District, Omaha, Nebraska
Milwaukee Bureau of Engineers, Milwaukee, Wisconsin
North Jersey District Water Supply Company, Wanaque, New Jersey (primary classification: Other Non-Manufacturing)

EMC
AAES

ENGINEERING MANPOWER COMMISSION
OF THE AMERICAN ASSOCIATION OF ENGINEERING SOCIETIES

ENTERING EMC'S 40TH YEAR OF SERVICE TO THE ENGINEERING PROFESSION

415 Second Street, N.E., Suite 200
Washington, D.C. 20002
(202) 546-2237

Richard A. Ellis
Director, Manpower Studies

Donald C. Brown, Chairman
Paul B. Wood, Past Chairman
Luke H. Noggle, Vice Chairman
William M. Sangster, Vice Chairman

January, 1990

Dear Colleague:

The Engineering Manpower Commission is a non-profit organization entering its 40th year of service to the engineering community. Our compensation surveys have been used over the years as authoritative benchmarks for industry, government agencies, educational institutions, the press, engineering students and others. In the last five years, our coverage has increased by more than 50 percent, to over 110,000 engineers in industry and over 20,000 in government. At the same time, the content of the survey has been expanded, and we have greatly accelerated production of the results.

We encourage you to participate in this project. Enclosed are the forms for the Engineering Manpower Commission's 24th survey of the salaries of engineers. Your participation is of great value both to industry and to engineers. As in the past, all participants will receive copies of the EMC manpower bulletin, "Engineering Salaries 1990", a six-page publication containing tables, graphs and text reporting the general results of the survey. The participants will also be entitled to a 40% discount in the prices of our detailed reports.

PLEASE NOTE: **The deadline has been moved up to March 15, 1990. You have been sent the survey later than most organizations; however, if you need more time, we would prefer to receive your information late rather than not at all.** Last year printed reports from this project on the salaries of over 130,000 engineers were released in mid-July; with your help, we can provide the results for 1990 by the end of June.

We appreciate the support we are obtaining from engineering employers for this survey, and we look forward to your participation in 1990.

Best Regards,

R A Ellis

R. A. Ellis, Director
Manpower Studies

DEADLINE:
MARCH 15, 1990
DATA ENTRY BEGINS FEB. 1
YOUR PROMPT RESPONSE
WILL HELP US RELEASE
THE RESULTS BY JULY 1990

PROFESSIONAL INCOME OF ENGINEERS - 1990

A Survey Conducted by the
ENGINEERING MANPOWER COMMISSION
American Association of Engineering Societies, Inc.
(202) 546-2237

DEADLINE:
MARCH 15, 1990
DATA ENTRY BEGINS FEB. 1
YOUR PROMPT RESPONSE
WILL HELP US RELEASE
THE RESULTS BY JULY 1990

FORM A - to be used with Form B
Questionnaire Form for Engineering Graduates in NON-SUPERVISORY Positions Only

Have you considered sending in your data on a floppy disk? See the instructions on the last page of this form for more information.
If your organization employs no more than 50 engineers, you may elect to use the optional Form "C."
Otherwise, complete this form and Form "B," as follows.

1. IDENTIFICATION DATA: Unidentified forms cannot be included in the survey results. Confidentiality of your data is assured by EMC.

   A. Is the name of the REPORTING ORGANIZATION on the mailing label affixed below correct? If not, please enter correct name here:

   B. Is the ADDRESSEE'S name and title correct? (This person receives the survey forms and participant's bulletins.) If not, correct here:

   C. Enter ADDRESSEE'S phone number:

   D. If someone other than the addressee is responsible for the data, enter their NAME, TITLE, and PHONE NUMBER here:

   E. If there are errors in the ADDRESS — street, mail stop, city, state, zip code, etc. — please enter corrections here:

2. CLASSIFICATION DATA: This information is needed to group data by industry sectors, size of organizations, and geography.

   A. Total number of ALL employees in organization/unit, to measure organization's size *(approximations are okay)*:

   B. Total number of NON-SUPERVISORY engineers reported on this Form A:

   C. List the States in which these engineers are PREDOMINANTLY employed, for the purpose of determining regional salary differences:

   D. If any employed NON-SUPERVISORY engineering graduates are NOT included in this report, please indicate the number of such employees: _____ and the REASON for omission:

   E. PRODUCT OR SERVICE CODES: Use as many as necessary to describe the organization (see below for categories).
   Primary: _____ Secondary: _____ Other: _____

MANUFACTURING INDUSTRY GROUPS, BY PRODUCT AREAS:		NON-MANUFACTURING, BY SERVICE AREA:	GOVERNMENT AGENCIES, BY LEVEL:
31 Aerospace	36 Machinery (other than electrical)	88 Business, Trade, Publishing	01 Federal
37 Automotive	42 Metal Products, Fabricated	81 Communication Services	02 State
35 Business Machines	41 Metals, Basic	68 Construction	03 Local
51 Ceramic Products: Stone, Clay, Glass, Cement	53 Paper Products	71 Consultants, Engineering & Architectural	NON PROFIT INSTITUTIONS:
11 Chemicals, Drugs, Plastics	18 Petroleum	72 Engineering Services, Other: Specify: _____	94 Professional Societies
27 Computer Hardware/Software	46 Railroad Equipment	61 Mining	95 Other Non Profit Institution: Specify: _____
21 Electrical Machinery and Equipment	55 Rubber & Plastic	74 Research Organizations/Laboratories	ALL OTHERS:
26 Electronic Equipment	52 Food products Products, Fabricated	84 Transportation Services	96 Specify nature of organization:
52 Food Products	38 Shipbuilding	86 Electric Utilities (including mixed)	_____
34 Instruments (precision)	54 Textile Products	87 Gas Utilities & Pipelines	_____
56 Lumber & Wood Products		89 Other Non-Manufacturing: Specify _____	
59 Other Manufacturing: Specific Product(s): _____			

3. EMC collects data on BASE SALARY ONLY. What PERCENTAGE of the NON-SUPERVISORY engineers reported on this form also received significant bonuses or other forms of special incentive compensation in **1989**? Rough estimates are okay; if none, please enter a zero; if you don't know, enter "DK":

COMPLETE THE INSIDE PAGES OF THIS FORM.
ALSO COMPLETE FORM B. RETURN THE FORMS TO:

ENGINEERING MANPOWER COMMISSION
AMERICAN ASSOCIATION OF ENGINEERING SOCIETIES
415 2nd STREET, N.E., WASHINGTON, D.C. 20002

A Business Reply Envelope is provided for your convenience.

FORM A — PRESENT SALARY OF NON-SUPERVISORY ENGINEERING GRADUATES

IMPORTANT - please read carefully before filling out form. Do NOT enter salary amounts, enter the number of persons in the salary-and-experience bracket. See sample form on the last page.

This form gives the distribution of employed engineering graduates as a function of salary bracket, highest degree held, and years of experience as measured since graduation with a bachelor's degree. Salary brackets are indicated at the left of each row — *note that some brackets include a wider salary range than others.* Separate sections of the form are set aside for each degree level — bachelor, master, or doctor. Individuals are to be reported in the section corresponding to highest degree level, but within each section they are to be reported in the column for their *year of graduation with bachelor's degree*, to give a common basis for comparison. If year of graduation cannot be given, report by *age* (average 1989 graduate is 23, etc.). Data for those graduating in the 1st quarter of 1990 should be combined with that for 1989 graduates. See the sample filled-out form for an illustration.

SALARY - should include base salary before deductions, and any regular allowances such as cost of living differential, etc. Do not include unpredictable payments for overtime work, stock options, bonuses, etc. Rates should be those in effect on February 1, 1990.

NON-SUPERVISORY ENGINEERS - should include all engineering graduates whose duties are NOT primarily supervisory or managerial. It is recognized that the precise definition of this group will vary somewhat from company to company. ***Please include non-supervisory engineering graduates who are currently in non-technical positions.*** If any engineering graduates must be omitted, please describe on line 20 on the first page of this form. ***Do not report part-time employees.***

	ANNUAL SALARY	YEAR OF BACCALAUREATE DEGREE (OR AGE)																	
	BACHELORS DEGREE HIGHEST HELD	1989 (23)	1988 (24)	1987 (25)	1986 (26)	1985 (27)	1984 (28)	1983 (29)	1982 (30)	1981 (31)	1978-1980 (32-34)	1975-1977 (35-37)	1972-1974 (38-40)	1969-1971 (41-43)	1966-1968 (44-46)	1963-1965 (47-49)	1960-1962 (50-52)	1957-1959 (53-55)	UP TO 1956 (56+)
101	$125,000 & over																		
102	$100,000-124,999																		
103	$95,000-99,999																		
104	$90,000-94,999																		
105	$85,000-89,999																		
106	$80,000-84,999																		
107	$76,000-79,999																		
108	$72,000-75,999																		
109	$68,000-71,999																		
110	$64,000-67,999																		
111	$60,000-63,999																		
112	$56,000-59,999																		
113	$53,000-55,999																		
114	$50,000-52,999																		
115	$47,000-49,999																		
116	$44,000-46,999																		
117	$41,000-43,999																		
118	$38,000-40,999																		
119	$36,000-37,999																		
120	$34,000-35,999																		
121	$32,000-33,999																		
122	$30,000-31,999																		
123	$28,000-29,999																		
124	$26,000-27,999																		
125	$24,000-25,999																		
126	$22,000-23,999																		
127	Less than $22,000																		

MASTERS DEGREE HIGHEST HELD (REPORT UNDER YEAR OF BACCALAUREATE DEGREE OR AGE, AS ABOVE)

201	$125,000 & over																		
202	$100,000-124,999																		
203	$95,000-99,999																		
204	$90,000-94,999																		
205	$85,000-89,999																		
206	$80,000-84,999																		
207	$76,000-79,999																		
208	$72,000-75,999																		
209	$68,000-71,999																		
210	$64,000-67,999																		
211	$60,000-63,999																		
212	$56,000-59,999																		
213	$53,000-55,999																		
214	$50,000-52,999																		
215	$47,000-49,999																		
216	$44,000-46,999																		
217	$41,000-43,999																		
218	$38,000-40,999																		
219	$36,000-37,999																		
220	$34,000-35,999																		
221	$32,000-33,999																		
222	$30,000-31,999																		
223	$28,000-29,999																		
224	$26,000-27,999																		
225	$24,000-25,999																		
226	$22,000-23,999																		
227	Less than $22,000																		

DOCTORS DEGREE HIGHEST HELD (REPORT UNDER YEAR OF BACCALAUREATE DEGREE OR AGE, AS ABOVE)

301	$125,000 & over																		
302	$100,000-124,999																		
303	$95,000-99,999																		
304	$90,000-94,999																		
305	$85,000-89,999																		
306	$80,000-84,999																		
307	$76,000-79,999																		
308	$72,000-75,999																		
309	$68,000-71,999																		
310	$64,000-67,999																		
311	$60,000-63,999																		
312	$56,000-59,999																		
313	$53,000-55,999																		
314	$50,000-52,999																		
315	$47,000-49,999																		
316	$44,000-46,999																		
317	$41,000-43,999																		
318	$38,000-40,999																		
319	$36,000-37,999																		
320	$34,000-35,999																		
321	$32,000-33,999																		
322	$30,000-31,999																		
323	$28,000-29,999																		
324	$26,000-27,999																		
325	$24,000-25,999																		
326	$22,000-23,999																		
327	Less than $22,000																		

NOTE: Please use extra caution in filling in shaded areas. Ordinarily no employees are reported in these portions of the form.

GENERAL INSTRUCTIONS:

There are three possible ways to respond:

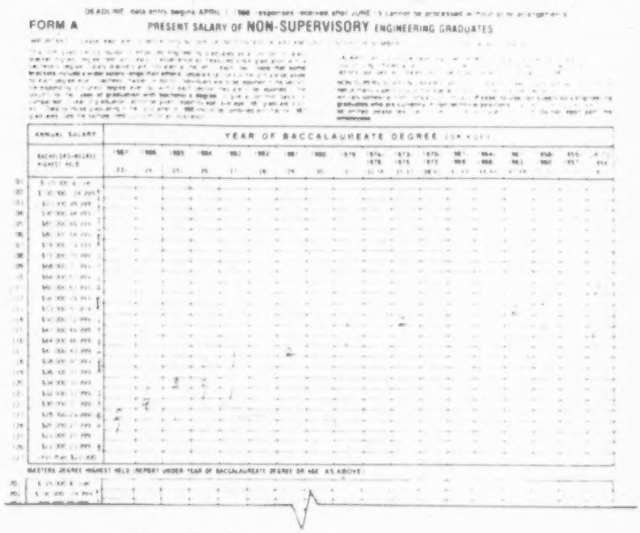
1. It may be possible to easily access your organization's data records to produce a machine-readable file for a common IBM-standard personal computer. See below for further instructions. Don't forget that we must have a copy of page one of the questionnaire, or its equivalent in information on a floppy disk, in order to process the data! EMC much prefers this form of response, as it is faster, more accurate, and ultimately much more convenient for all parties.

2. If your organization has NO MORE THAN 50 engineering graduates, you can choose to simply list them (no names, please) one-by-one on the optional Form C. PLEASE: do not use Form C to report more than 50 engineers. Make up a floppy-based response instead (most word processors will do the job easily — just make sure to save the work as an ASCII "non-document" file), or use Forms A and B.

3. The traditional method is to use EMC's matrix-style Forms A and B. Be sure to complete ALL of the items on page 1 of these forms (you need not duplicate your responses, but NOTE: EACH FORM MUST INCLUDE SEPARATE REPLIES TO QUESTIONS #2B, #2D, AND #3). See the sample of a completed Form A (top third only) at the right.

4. Whatever approach you use, check your responses carefully before returning them to EMC. EMC welcomes inquiries from participants and will provide help for respondents. Call us at the number listed at the top of Page 1 of the form.

Example of a completed Form A (from the 1988 survey)


FORM A

PRESENT SALARY OF NON-SUPERVISORY ENGINEERING GRADUATES

ANNUAL SALARY

YEAR OF BACCALAUREATE DEGREE

EMC POLICY REGARDING SALARY SURVEY PARTICIPANTS

It is our policy to list the names of the organizations participating in our salary surveys, by sector, so that users will be able to ascertain whether a particular industry group is representative of their own. At the same time, it is our long-standing policy to protect each respondent's data from disclosure to anyone else. To protect the confidentiality of information and to provide adequate safeguards against the disclosure of data identified with any particular survey participant, the following precautions are taken:

1. Company identifications are used only for the purpose of maintaining EMC'S mailing lists and are not entered with the salary data files in our computer. No sector is formed unless at least five responding organizations can be included.

2. The only persons with access to returned salary data forms are the AAES staff who process the surveys. Responding organizations' data are not disclosed to anyone. There are no exceptions to this policy.

3. If a single employer's responses account for more than half of the number of data points — engineers — reported for any group, weighting procedures are used to prevent that employer's information from unduly dominating the statistics for the group.

4. At least 200 engineers must be represented in any data set for engineers in industry or government before statistics for the group will be published.

5. Within data sets, statistics are not generated for particular experience categories unless the bracket includes at least one percent of the total number of engineers for the set AND at least ten engineers are present.

6. EMC does not obtain the names of individual engineers represented by the data. The only names collected are those of the addressees and other contact persons used for our mailing lists, and these names are not published or disclosed.

7. Anonymous responses are not used. Responses requesting that the responding organization not be identified are refused and returned to their originator.

SPECIAL INSTRUCTIONS FOR ORGANIZATIONS PROVIDING SALARY DATA ON FLOPPY DISK MEDIA

EMC is encouraging its salary survey participants to respond by submitting machine-readable files. In 1989, data on over 40,000 engineers were reported in this fashion. Media must be in the form of standard double-sided, double-density 5 1/4" floppy diskettes, either 360K or 1.2 meg. We use MS-DOS 3.2; with UNIFORM-PC we can also handle PC and MS-DOS versions 1 and 2, as well as most common CP/M formats.

Floppies should be mailed in appropriate containers (heavy cardboard disk mailers are best). You MUST also enclose a completed copy of PAGE 1 of the questionnaire (Form C is suggested), to provide your organization's ID and classification data. Alternatively, you may provide an ASCII text file on the disk with your responses to the page 1 questions. (Note that some items need separate responses for both supervisors and non-supervisors.) Without these data, your response cannot be processed. Give any such text file the name "SALARY.INF."

Your salary data file should be named "SALARY.DAT" and MUST take the following format:

1. The data file must be pure ASCII.

2. Data must be entered in the form of one line (or record) per engineer, terminated by a CR-LF (carriage return/line feed combination). Don't forget to use the CR-LF after the last line of data.

3. The contents of each line should be as follows:

- Character 01: either S or N, for Supervisor or Nonsupervisor.
- Character 02: always a comma.
- Character 03: B, M, or P, for Bachelor, Masters, or Ph.D. degree. If degree is unknown or there is no degree, a B.S. equivalent will be assumed.
- Character 04: always a comma.
- Character 05-06: two digits for YEAR GRADUATED WITH BACHELOR'S DEGREE (last two digits only). If unknown, enter "99" AND enter the age (see next item).
- Character 07: always a comma.
- Characters 08-09: two digits for AGE. If the previous YEAR GRADUATED WITH BACHELOR'S DEGREE item has been provided, this may be treated as an unknown and coded "99." If both the year and the age are provided, EMC will use those data to improve its procedures for using age to estimate the year of graduation with the B.S. degree. Note that the "99" code should be explicitly entered (blanks or zeros will be treated as "99's" IF the preceding YEAR data is supplied).
- Character 10: always a comma.
- Characters 11-16: six digits for annual salary, right-justified and zero-filled. Leading blanks will be treated as zeros. A CR-LF code must follow the entry.

ANY ENTRIES OTHER THAN THOSE DESCRIBED ABOVE WILL BE ASSUMED TO BE ERRORS AND WILL CAUSE THE ENTIRE LINE TO BE IGNORED.

4. There will be as many lines as there are engineers reported. On your enclosed Form "C" or in the added SALARY.INF text file, PLEASE SPECIFY THE TOTAL NUMBER OF ENGINEERS REPORTED BY YOUR COMPANY. Comparison of your counts with our own totals is one of several elementary quality control checks employed by EMC.

5. LABEL your diskette with AT LEAST the following information: your organization's name, the particular diskette format used (we will assume DOS if no other information is provided), and the identifier "90EMCSAL."

DEADLINE:
MARCH 15, 1990
DATA ENTRY BEGINS FEB. 1
YOUR PROMPT RESPONSE
WILL HELP US RELEASE
THE RESULTS BY JULY 1990

PROFESSIONAL INCOME OF ENGINEERS - 1990

A Survey Conducted by the
ENGINEERING MANPOWER COMMISSION
American Association of Engineering Societies, Inc.
(202) 546-2237

DEADLINE:
MARCH 15, 1990
DATA ENTRY BEGINS FEB. 1
YOUR PROMPT RESPONSE
WILL HELP US RELEASE
THE RESULTS BY JULY 1990

FORM B - to be used with Form A
Questionnaire Form for Engineering Graduates in SUPERVISORY Positions Only

Have you considered sending in your data on a floppy disk? See the instructions on the last page of this form for more information.
If your organization employs no more than 50 engineers, you may elect to use the optional Form "C."
Otherwise, complete Form A, then complete this form. NOTE: Items 2B, 2D, and 3 require SEPARATE answers on BOTH forms. If you have answered all other questions on Form A, you need not repeat that information here.

1. IDENTIFICATION DATA: Unidentified forms cannot be included in the survey results. Confidentiality of your data is assured by EMC.
   - A. Is the name of the REPORTING ORGANIZATION on the mailing label affixed below correct? If not, please enter correct name here: _____
   - B. Is the ADDRESSEE'S name and title correct? (This person receives the survey forms and participant's bulletins.) If not, correct here: _____
   - C. Enter ADDRESSEE'S phone number: _____
   - D. If someone other than the addressee is responsible for the data, enter their NAME, TITLE, and PHONE NUMBER here: _____
   - E. If there are errors in the ADDRESS — street, mail stop, city, state, zip code, etc. — please enter corrections here: _____

2. CLASSIFICATION DATA: This information is needed to group data by industry sectors, size of organizations, and geography:
   - A. Total number of ALL employees in organization/unit, to measure organization's size *(approximations are okay)*: _____
   - B. Total number of SUPERVISORY engineers reported on this Form B: _____
   - C. List the States in which these engineers are PREDOMINANTLY employed, for the purpose of determining regional salary differences: _____
   - D. If any employed SUPERVISORY engineering graduates are NOT included in this report, please indicate the number of such employees: _____ . . . and the REASON for omission: _____
   - E. PRODUCT OR SERVICE CODES: Use as many as necessary to describe the organization (see below for categories):
     Primary: _____ Secondary: _____ Other: _____

MANUFACTURING INDUSTRY GROUPS, BY PRODUCT AREAS:		NON-MANUFACTURING, BY SERVICE AREA:	GOVERNMENT AGENCIES, BY LEVEL:
31 Aerospace	36 Machinery (other than electrical)	88 Business, Trade, Publishing	01 Federal
37 Automotive	42 Metal Products, Fabricated	81 Communication Services	02 State
35 Business Machines	41 Metals, Basic	88 Construction	03 Local
51 Ceramic Products: Stone, Clay, Glass, Cement	53 Paper Products	71 Consultants, Engineering & Architectural	NON PROFIT INSTITUTIONS:
11 Chemicals, Drugs, Plastics	18 Petroleum	72 Engineering Services, Other: Specify: _____	94 Professional Societies
27 Computer Hardware/Software	46 Railroad Equipment	61 Mining	95 Other Non Profit Institution: Specify: _____
21 Electrical Machinery and Equipment	55 Rubber & Plastic	74 Research Organizations/Laboratories	ALL OTHERS:
26 Electronic Equipment	52 Food products Products, Fabricated	84 Transportation Services	96 Specify nature of organization: _____
52 Food Products	38 Shipbuilding	86 Electric Utilities (including mixed)	
34 Instruments (precision)	54 Textile Products	87 Gas Utilities & Pipelines	
56 Lumber & Wood Products		89 Other Non-Manufacturing: Specify _____	
59 Other Manufacturing: Specific Product(s): _____			

3. EMC collects data on BASE SALARY ONLY. What PERCENTAGE of the SUPERVISORY engineers reported on this form also received significant bonuses or other forms of special incentive compensation in **1989**? Rough estimates are okay; if none, please enter a zero; if you don't know, enter "DK": _____

COMPLETE THE INSIDE PAGES OF THIS FORM.
ALSO COMPLETE FORM A. RETURN THE FORMS TO:

ENGINEERING MANPOWER COMMISSION
AMERICAN ASSOCIATION OF ENGINEERING SOCIETIES
415 2nd STREET, N.E., WASHINGTON, D.C. 20002

A Business Reply Envelope is provided for your convenience.

FORM B — PRESENT SALARY OF SUPERVISORY ENGINEERING GRADUATES ONLY

IMPORTANT - please read carefully before filling out form. Do NOT enter salary amounts; enter the number of persons in the salary-and-experience bracket. See sample form on the last page.

This form gives the distribution of employed engineering graduates as a function of salary bracket, highest degree held, and years of experience as measured since graduation with a bachelor's degree. Salary brackets are indicated at the left of each row — *note that some brackets include a wider salary range than others.* Separate sections of the form are set aside for each degree level — bachelor, master or doctor. Individuals are to be reported in the section corresponding to highest degree level, but within each section they are to be reported in the column for their *year of graduation with bachelor's degree*, to give a common basis for comparison. If year of graduation cannot be given, report by age (average 1989 graduate is 23, etc.) Data for those graduating in the 1st quarter of 1990 should be combined with that for 1989 graduates. See the sample filled-out form for an illustration.

SALARY - should include base salary before deductions, and any regular allowances such as cost of living differential, etc. Do not include unpredictable payments for overtime work, stock options, bonuses, etc. Rates should be those in effect on February 1, 1990.

SUPERVISORY ENGINEERS - should include all engineering graduates whose duties are primarily supervisory or managerial. It is recognized that the precise definition of this group will vary somewhat from company to company. ***Please report all supervisory engineering graduates, including those who are in general management or non-technical positions.*** If any, must be omitted, please describe them on line 20 of the first page of this form. ***Do not report part-time employees.***

	ANNUAL SALARY	YEAR OF BACCALAUREATE DEGREE (OR AGE)																
	BACHELORS DEGREE HIGHEST HELD	1990 (23)	1989 (24)	1988 (25)	1987 (26)	1986 (27)	1985 (28)	1984 (29)	1983 (30)	1982 (31)	1978-1981 (32-34)	1975-1977 (35-37)	1972-1974 (38-40)	1969-1971 (41-43)	1966-1968 (44-46)	1963-1965 (47-49)	1960-1962 (50-52)	1957-1959 (53-55)	UP TO 1956 (56+)
101	$125,000 & over																		
102	$100,000-124,999																		
103	$95,000-99,999																		
104	$90,000-94,999																		
105	$85,000-89,999																		
106	$80,000-84,999																		
107	$76,000-79,999																		
108	$72,000-75,999																		
109	$68,000-71,999																		
110	$64,000-67,999																		
111	$60,000-63,999																		
112	$56,000-59,999																		
113	$53,000-55,999																		
114	$50,000-52,999																		
115	$47,000-49,999																		
116	$44,000-46,999																		
117	$41,000-43,999																		
118	$38,000-40,999																		
119	$36,000-37,999																		
120	$34,000-35,999																		
121	$32,000-33,999																		
122	$30,000-31,999																		
123	$28,000-29,999																		
124	$26,000-27,999																		
125	$24,000-25,999																		
126	$22,000-23,999																		
127	Less than $22,000																		

MASTERS DEGREE HIGHEST HELD (REPORT UNDER YEAR OF BACCALAUREATE DEGREE OR AGE, AS ABOVE)

201	$125,000 & over																		
202	$100,000-124,999																		
203	$95,000-99,999																		
204	$90,000-94,999																		
205	$85,000-89,999																		
206	$80,000-84,999																		
207	$76,000-79,999																		
208	$72,000-75,999																		
209	$68,000-71,999																		
210	$64,000-67,999																		
211	$60,000-63,999																		
212	$56,000-59,999																		
213	$53,000-55,999																		
214	$50,000-52,999																		
215	$47,000-49,999																		
216	$44,000-46,999																		
217	$41,000-43,999																		
218	$38,000-40,999																		
219	$36,000-37,999																		
220	$34,000-35,999																		
221	$32,000-33,999																		
222	$30,000-31,999																		
223	$28,000-29,999																		
224	$26,000-27,999																		
225	$24,000-25,999																		
226	$22,000-23,999																		
227	Less than $22,000																		

DOCTORS DEGREE HIGHEST HELD (REPORT UNDER YEAR OF BACCALAUREATE DEGREE OR AGE, AS ABOVE)

301	$125,000 & over																		
302	$100,000-124,999																		
303	$95,000-99,999																		
304	$90,000-94,999																		
305	$85,000-89,999																		
306	$80,000-84,999																		
307	$76,000-79,999																		
308	$72,000-75,999																		
309	$68,000-71,999																		
310	$64,000-67,999																		
311	$60,000-63,999																		
312	$56,000-59,999																		
313	$53,000-55,999																		
314	$50,000-52,999																		
315	$47,000-49,999																		
316	$44,000-46,999																		
317	$41,000-43,999																		
318	$38,000-40,999																		
319	$36,000-37,999																		
320	$34,000-35,999																		
321	$32,000-33,999																		
322	$30,000-31,999																		
323	$28,000-29,999																		
324	$26,000-27,999																		
325	$24,000-25,999																		
326	$22,000-23,999																		
327	Less than $22,000																		

NOTE. **Please use extra caution in filling in shaded areas.** Ordinarily no employees are reported in these portions of the form.

GENERAL INSTRUCTIONS:

There are three possible ways to respond:

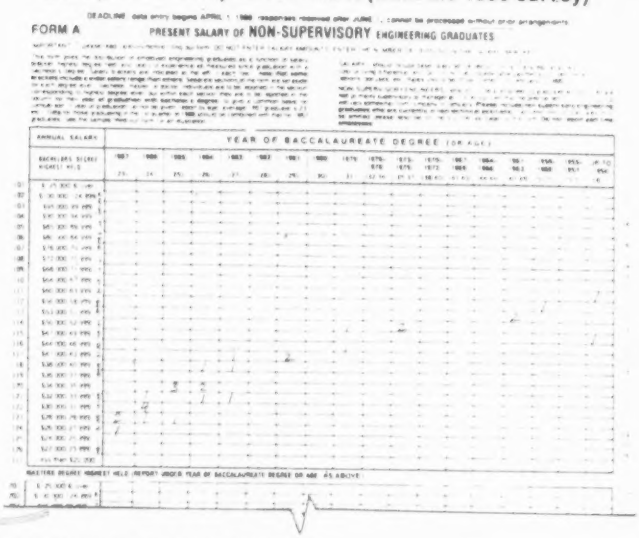
1. It may be possible to easily access your organization's data records to produce a machine-readable file for a common IBM-standard personal computer. See below for further instructions. Don't forget that we must have a copy of page one of the questionnaire, or its equivalent in information on a floppy disk in order to process the data! EMC much prefers this form of response, as it is faster, more accurate, and ultimately much more convenient for all parties.

2. If your organization has NO MORE THAN 50 engineering graduates, you can choose to simply list them (no names, please) one-by-one on the optional Form C. PLEASE: do not use Form C to report more than 50 engineers. Make up a floppy-based response instead (most word processors will do the job easily — just make sure to save the work as an ASCII "non-document" file), or use Forms A and B.

3. The traditional method is to use EMC's matrix-style Forms A and B. Be sure to complete ALL of the items on page 1 of these forms (you need not duplicate your responses, but NOTE: EACH FORM MUST INCLUDE SEPARATE REPLIES TO QUESTIONS #2B, #2D, AND #3). See the sample of a completed Form A (top third only) at the right.

4. Whatever approach you use, check your responses carefully before returning them to EMC. EMC welcomes inquiries from participants and will provide help for respondents. Call us at the number listed at the top of Page 1 of the form.

Example of a completed Form A (from the 1988 survey)


FORM A PRESENT SALARY OF NON-SUPERVISORY ENGINEERING GRADUATES

ANNUAL SALARY | YEAR OF BACCALAUREATE DEGREE (OR AGE)

EMC POLICY REGARDING SALARY SURVEY PARTICIPANTS

It is our policy to list the names of the organizations participating in our salary surveys, by sector, so that users will be able to ascertain whether a particular industry group is representative of their own. At the same time, it is our long-standing policy to protect each respondent's data from disclosure to anyone else. To protect the confidentiality of information and to provide adequate safeguards against the disclosure of data identified with any particular survey participant, the following precautions are taken:

1. Company identifications are used only for the purpose of maintaining EMC'S mailing lists and are not entered with the salary data files in our computer. No sector is formed unless at least five responding organizations can be included.

2. The only persons with access to returned salary data forms are the AAES staff who process the surveys. Responding organizations' data are not disclosed to anyone. There are no exceptions to this policy.

3. If a single employer's responses account for more than half of the number of data points — engineers — reported for any group, weighting procedures are used to prevent that employer's information from unduly dominating the statistics for the group.

4. At least 200 engineers must be represented in any data set for engineers in industry or government before statistics for the group will be published.

5. Within data sets, statistics are not generated for particular experience categories unless the bracket includes at least one percent of the total number of engineers for the set AND at least ten engineers are present.

6. EMC does not obtain the names of individual engineers represented by the data. The only names collected are those of the addressees and other contact persons used for our mailing lists, and these names are not published or disclosed.

7. Anonymous responses are not used. Responses requesting that the responding organization not be identified are refused and returned to their originator.

SPECIAL INSTRUCTIONS FOR ORGANIZATIONS PROVIDING SALARY DATA ON FLOPPY DISK MEDIA

EMC is encouraging its salary survey participants to respond by submitting machine-readable files. In 1989, data on over 40,000 engineers were reported in this fashion. Media must be in the form of standard double-sided, double-density 5 1/4" floppy diskettes, either 360K or 1.2 meg. We use MS-DOS 3.2; with UNIFORM-PC we can also handle PC and MS-DOS versions 1 and 2, as well as most common CP/M formats.

Floppies should be mailed in appropriate containers (heavy cardboard disk mailers are best). You MUST also enclose a completed copy of PAGE 1 of the questionnaire (Form C is suggested), to provide your organization's ID and classification data. Alternatively, you may provide an ASCII text file on the disk with your responses to the page 1 questions. (Note that some items need separate responses for both supervisors and non-supervisors.) Without these data, your response cannot be processed. Give any such text file the name "SALARY.INF."

Your salary data file should be named "SALARY.DAT" and MUST take the following format:

1. The data file must be pure ASCII.

2. Data must be entered in the form of one line (or record) per engineer, terminated by a CR-LF (carriage return/line feed combination). Don't forget to use the CR-LF after the last line of data.

3. The contents of each line should be as follows:

- Character 01: either S or N, for Supervisor or Nonsupervisor.
- Character 02: always a comma.
- Character 03: B, M, or P, for Bachelor, Masters, or Ph.D. degree. If degree is unknown or there is no degree, a B.S. equivalent will be assumed.
- Character 04: always a comma.
- Character 05-06: two digits for YEAR GRADUATED WITH BACHELOR'S DEGREE (last two digits only). If unknown, enter "99" AND enter the age (see next item).
- Character 07: always a comma.
- Characters 08-09: two digits for AGE. If the previous YEAR GRADUATED WITH BACHELOR'S DEGREE item has been provided, this may be treated as an unknown and coded "99." If both the year and the age are provided, EMC will use those data to improve its procedures for using age to estimate the year of graduation with the B.S. degree. Note that the "99" code should be explicitly entered (blanks or zeros will be treated as "99's" IF the preceding YEAR data is supplied).
- Character 10: always a comma.
- Characters 11-16: six digits for annual salary, right-justified and zero-filled. Leading blanks will be treated as zeros. A CR-LF code must follow the entry.

ANY ENTRIES OTHER THAN THOSE DESCRIBED ABOVE WILL BE ASSUMED TO BE ERRORS AND WILL CAUSE THE ENTIRE LINE TO BE IGNORED.

4. There will be as many lines as there are engineers reported. On your enclosed Form "C" or in the added SALARY.INF text file, PLEASE SPECIFY THE TOTAL NUMBER OF ENGINEERS REPORTED BY YOUR COMPANY. Comparison of your counts with our own totals is one of several elementary quality control checks employed by EMC.

5. LABEL your diskette with AT LEAST the following information: your organization's name, the particular diskette format used (we will assume DOS if no other information is provided), and the identifier "90EMCSAL."

DEADLINE:
MARCH 15, 1990
DATA ENTRY BEGINS FEB. 1
YOUR PROMPT RESPONSE
WILL HELP US RELEASE
THE RESULTS BY JULY 1990

PROFESSIONAL INCOME OF ENGINEERS - 1990

A Survey Conducted by the
ENGINEERING MANPOWER COMMISSION
American Association of Engineering Societies, Inc.
(202) 546-2237

DEADLINE:
MARCH 15, 1990
DATA ENTRY BEGINS FEB. 1
YOUR PROMPT RESPONSE
WILL HELP US RELEASE
THE RESULTS BY JULY 1989

FORM C - Optional Short Form, used in place of both Forms A and B

For organizations with no more than 50 engineers, including both supervisors and non-supervisors

Have you considered sending in your data on a floppy disk? See the instructions on the last page of this form for more information.

1. IDENTIFICATION DATA: Unidentified forms cannot be included in the survey results. Confidentiality of your data is assured by EMC.
   - A. Is the name of the REPORTING ORGANIZATION on the mailing label affixed below correct? If not, please enter correct name here: _____
   - B. Is the ADDRESSEE'S name and title correct? (This person receives the survey forms and participant's bulletins.) If not, correct here: _____
   - C. Enter ADDRESSEE'S phone number: _____
   - D. If someone other than the addressee is responsible for the data, enter their NAME, TITLE, and PHONE NUMBER here: _____
   - E. If there are errors in the ADDRESS — street, mail stop, city, state, zip code, etc. — please enter corrections here: _____

2. CLASSIFICATION DATA: This information is needed to group data by industry sectors, size of organizations, and geography.
   - A. Total number of ALL employees in organization/unit, to measure organization's size *(approximations are okay)*: _____
   - B. List the States in which these engineers are PREDOMINANTLY employed, for the purpose of determining regional salary differences: _____
   - C. If any employed NON-SUPERVISORY engineering graduates are NOT included in this report, please indicate the number of such employees: _____ . . . and the REASON for omission: _____
   - D. If any employed SUPERVISORY engineering graduates are NOT included in this report, please indicate the number of such employees: _____ . . . and the REASON for omission: _____
   - E. PRODUCT OR SERVICE CODES. Use as many as necessary to describe the organization (see below for categories).
     Primary: _____ Secondary: _____ Other: _____

MANUFACTURING INDUSTRY GROUPS, BY PRODUCT AREAS:		NON-MANUFACTURING, BY SERVICE AREA:	GOVERNMENT AGENCIES, BY LEVEL:
31 Aerospace	36 Machinery (other than electrical)	88 Business, Trade, Publishing	01 Federal
37 Automotive	42 Metal Products, Fabricated	81 Communication Services	02 State
35 Business Machines	41 Metals, Basic	68 Construction	03 Local
51 Ceramic Products: Stone, Clay, Glass, Cement	53 Paper Products	71 Consultants, Engineering & Architectural	NON PROFIT INSTITUTIONS:
11 Chemicals, Drugs, Plastics	18 Petroleum	72 Engineering Services, Other: Specify: _____	94 Professional Societies
27 Computer Hardware/Software	46 Railroad Equipment	61 Mining	95 Other Non Profit Institution: Specify: _____
21 Electrical Machinery and Equipment	55 Rubber & Plastic	74 Research Organizations/Laboratories	ALL OTHERS:
26 Electronic Equipment	52 Food products Products, Fabricated	84 Transportation Services	96 Specify nature of organization:
52 Food Products	38 Shipbuilding	86 Electric Utilities (including mixed)	_____
34 Instruments (precision)	54 Textile Products	87 Gas Utilities & Pipelines	_____
56 Lumber & Wood Products		89 Other Non-Manufacturing: Specify _____	
59 Other Manufacturing: Specific Product(s): _____			

3. EMC collects data on BASE SALARY ONLY:
   A. What PERCENTAGE of the NON-SUPERVISORY engineers reported on this form also received significant bonuses or other forms of special incentive compensation in **1989**? Rough estimates are okay; if none, please enter a zero; if you don't know, enter "DK": _____
   B. What PERCENTAGE of the SUPERVISORY engineers reported on this form also received significant bonuses or other forms of special incentive compensation in **1989**? Rough estimates are okay; if none, please enter a zero; if you don't know, enter "DK": _____

COMPLETE THE INSIDE PAGES OF THIS FORM.
RETURN THE FORM TO:

ENGINEERING MANPOWER COMMISSION
AMERICAN ASSOCIATION OF ENGINEERING SOCIETIES
415 2nd STREET, N.E., WASHINGTON, D.C. 20002

A Business Reply Envelope is provided for your convenience.

DEADLINE: MARCH 15, 1990. Data entry begins FEBRUARY 1. Your prompt response will help us release the results by July, 1990.

FORM C

PRESENT SALARY OF ENGINEERING GRADUATES

Optional Short Form for UP TO 50 supervisors and/or non-supervisors

IMPORTANT — please read carefully before filling out form.

This form replaces EMC'S traditional matrix style instruments, which allow entry of data for large engineering staffs of up to several thousand persons, in order to provide a simpler data entry form for small organizations. Simply complete one line of the form for each engineer to be reported.

ALL indicated data is needed. NO other data is needed. Please do NOT write names on these forms.

SUPERVISORS include all engineering graduates whose duties are primarily supervisory or managerial. Other engineers are NON-SUPERVISORS. It is recognized that the precise definition of these terms will vary somewhat from company to company. Please include engineering graduates who are currently in general management or non-technical positions. If any engineering graduates must be omitted, please describe on page 1 of this form. DO NOT REPORT PART-TIME EMPLOYEES. Only "S" or "N" should appear in the first column of the form.

EMC measures experience as the number of years since receiving the bachelor's degree. If that date is not available, age is used to estimate it. If you can provide both the year and age data, EMC will use this information to improve its estimation procedures. Either data element will suffice, however.

ANNUAL SALARY — should include base salary before deductions, and any regular allowances such as cost of living differential, etc. Rates should be those in effect on February 1, 1990.

If you use this form, your copies of Forms A and B may be discarded. PLEASE do not use this form to report more than 50 engineers. Make up a disk-based response instead (the format is virtually identical), or use Forms A and B.

	Supervisor (S) or Non-supervisor (N)? Enter S or N	Highest Degree Held B, Bachelor; M, Master; P, Ph.D. Enter B, M, or P	Year graduated with BACHELOR's degree Enter YEAR	Age as of Feb. 1, 1990 Enter AGE	Annual Salary as of Feb. 1, 1990 Enter ANNUAL SALARY
901					
902					
903					
904					
905					
906					
907					
908					
909					
910					
911					
912					
913					
914					
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939					
940					
941					
942					
943					
944					
945					
946					
947					
948					
949					
950					

GENERAL INSTRUCTIONS:

There are three possible ways to respond:

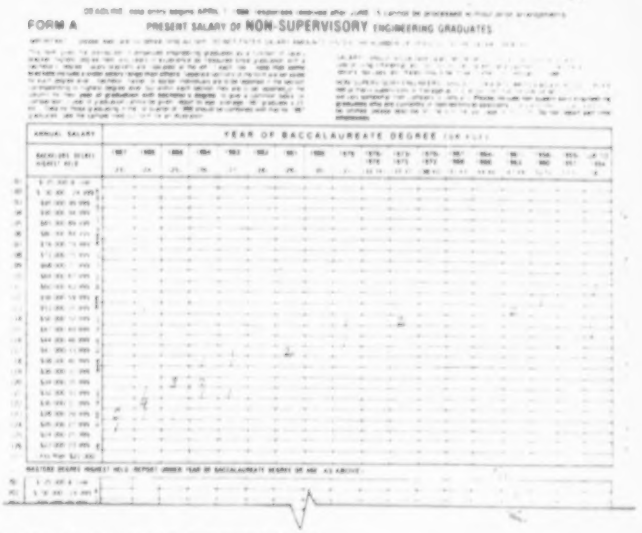
1. It may be possible to easily access your organization's data records to produce a machine-readable file for a common IBM-standard personal computer. See below for further instructions. Don't forget that we must have a copy of page one of the questionnaire, or its equivalent in information on a floppy disk, in order to process the data! EMC much prefers this form of response, as it is faster, more accurate, and ultimately much more convenient for all parties.

2. If your organization has NO MORE THAN 50 engineering graduates, you can choose to simply list them (no names, please) one-by-one on the optional Form C. PLEASE: do not use Form C to report more than 50 engineers. Make up a floppy-based response instead (most word processors will do the job easily — just make sure to save the work as an ASCII "non-document" file), or use Forms A and B.

3. The traditonal method is to use EMC's matrix-style Forms A and B. Be sure to complete ALL of the items on page 1 of these forms (you need not duplicate your responses, but NOTE: EACH FORM MUST INCLUDE SEPARATE REPLIES TO QUESTIONS #2B, #2D, AND #3). See the sample of a completed Form A (top third only) at the right.

4. Whatever approach you use, check your responses carefully before returning them to EMC. EMC welcomes inquiries from participants and will provide help for respondents. Call us at the number listed at the top of Page 1 of the form.

Example of a completed Form A (from the 1988 survey)


FORM A

PRESENT SALARY OF NON-SUPERVISORY ENGINEERING GRADUATES

YEAR OF BACCALAUREATE DEGREE

EMC POLICY REGARDING SALARY SURVEY PARTICIPANTS

It is our policy to list the names of the organizations participating in our salary surveys, by sector, so that users will be able to ascertain whether a particular industry group is representative of their own. At the same time, it is our long-standing policy to protect each respondent's data from disclosure to anyone else. To protect the confidentiality of information and to provide adequate safeguards against the disclosure of data identified with any particular survey participant, the following precautions are taken:

1. Company identifications are used only for the purpose of maintaining EMC'S mailing lists and are not entered with the salary data files in our computer. No sector is formed unless at least five responding organizations can be included.

2. The only persons with access to returned salary data forms are the AAES staff who process the surveys. Responding organizations' data are not disclosed to anyone. There are no exceptions to this policy.

3. If a single employer's responses account for more than half of the number of data points — engineers — reported for any group, weighting procedures are used to prevent that employer's information from unduly dominating the statistics for the group.

4. At least 200 engineers must be represented in any data set for engineers in industry or government before statistics for the group will be published.

5. Within data sets, statistics are not generated for particular experience categories unless the bracket includes at least one percent of the total number of engineers for the set AND at least ten engineers are present.

6. EMC does not obtain the names of individual engineers represented by the data. The only names collected are those of the addressees and other contact persons used for our mailing lists, and these names are not published or disclosed.

7. Anonymous responses are not used. Responses requesting that the responding organization not be identified are refused and returned to their originator.

SPECIAL INSTRUCTIONS FOR ORGANIZATIONS PROVIDING SALARY DATA ON FLOPPY DISK MEDIA

EMC is encouraging its salary survey participants to respond by submitting machine-readable files. In 1989, data on over 40,000 engineers were reported in this fashion. Media must be in the form of standard double-sided, double-density 5 1/4" floppy diskettes, either 360K or 1.2 meg. We use MS-DOS 3.2; with UNIFORM-PC we can also handle PC and MS-DOS versions 1 and 2, as well as most common CP/M formats.

Floppies should be mailed in appropriate containers (heavy cardboard disk mailers are best). You MUST also enclose a completed copy of PAGE 1 of the questionnaire (Form C is suggested), to provide your organization's ID and classification data. Alternatively, you may provide an ASCII text file on the disk with your responses to the page 1 questions. (Note that some items need separate responses for both supervisors and non-supervisors.) Without these data, your response cannot be processed. Give any such text file the name "SALARY.INF."

Your salary data file should be named "SALARY.DAT" and MUST take the following format:

1. The data file must be pure ASCII.

2. Data must be entered in the form of one line (or record) per engineer, terminated by a CR-LF (carriage return/line feed combination). Don't forget to use the CR-LF after the last line of data.

3. The contents of each line should be as follows:

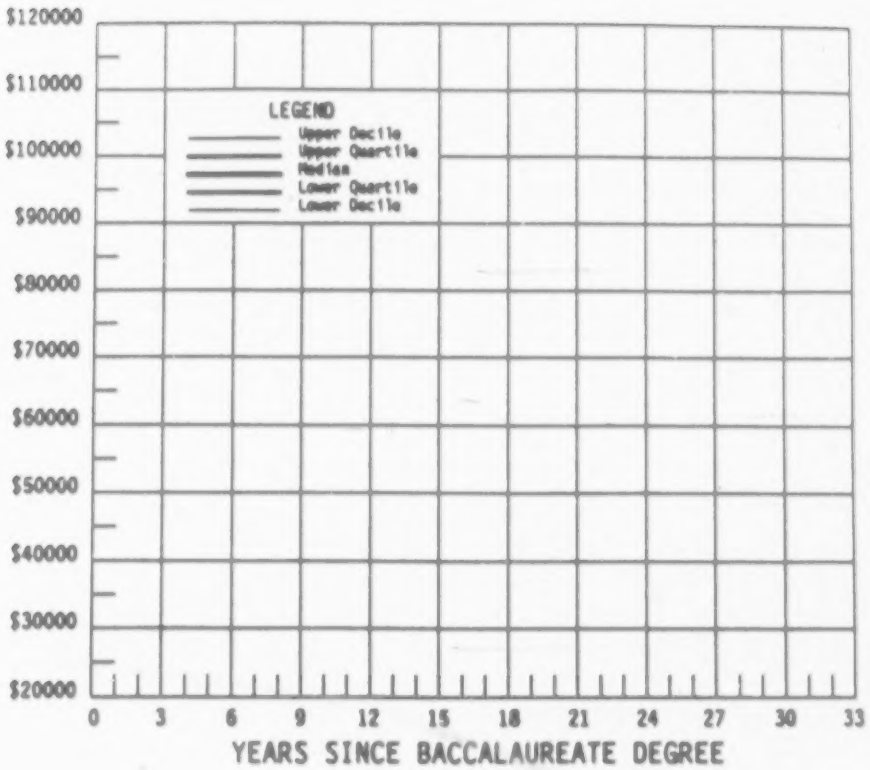
- Character 01: either S or N, for Supervisor or Nonsupervisor.
- Character 02: always a comma.
- Character 03: B, M, or P, for Bachelor, Masters, or Ph.D. degree. If degree is unknown or there is no degree, a B.S. equivalent will be assumed.
- Character 04: always a comma.
- Character 05-06: two digits for YEAR GRADUATED WITH BACHELOR'S DEGREE (last two digits only). If unknown, enter "99" AND enter the age (see next item).
- Character 07: always a comma.
- Characters 08-09: two digits for AGE. If the previous YEAR GRADUATED WITH BACHELOR'S DEGREE item has been provided, this may be treated as an unknown and coded "99." If both the year and the age are provided, EMC will use those data to improve its procedures for using age to estimate the year of graduation with the B.S. degree. Note that the "99" code should be explicitly entered (blanks or zeros will be treated as "99's" IF the preceding YEAR data is supplied).
- Character 10: always a comma.
- Characters 11-16: six digits for annual salary, right-justified and zero-filled. Leading blanks will be treated as zeros. A CR-LF code must follow the entry.

ANY ENTRIES OTHER THAN THOSE DESCRIBED ABOVE WILL BE ASSUMED TO BE ERRORS AND WILL CAUSE THE ENTIRE LINE TO BE IGNORED.

4. There will be as many lines as there are engineers reported. On your enclosed Form "C" or in the added SALARY.INF text file, PLEASE SPECIFY THE TOTAL NUMBER OF ENGINEERS REPORTED BY YOUR COMPANY. Comparison of your counts with our own totals is one of several elementary quality control checks employed by EMC.

5. LABEL your diskette with AT LEAST the following information: your organization's name, the particular diskette format used (we will assume DOS if no other information is provided), and the identifier "90EMCSAL."

SALARY CURVES FOR ENGINEERS



CURRENT ENGINEERING MANPOWER COMMISSION PUBLICATIONS

NOTE: AAES has moved; see new address below. Custom runs of compensation data are possible; call us for details. Our machine-readable products are provided on IBM-standard 5 1/4" floppy disks and include most, not but all, of the details available in EMC's printed reports. For more information, contact the AAES Manpower Studies Department.

ENGINEERS' SALARIES: SPECIAL INDUSTRY REPORT 1990

A detailed breakdown of engineering salaries according to type of industry, geographic regions, company size, employee experience, highest degree held, and supervisory status. Tables and graphs depict salaries in medians, quartiles, deciles and means.

member price: $169.00 non-member price: $287.50

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